YAMAHA

CDR-HD1500

HDD／CD Recorder

Enregistreur CD／Disque Dur

COMPACT
disc
DIGITAL AUDIO
Recordable
ReWritable

COMPACT
disc
DIGITAL AUDIO
TEXT

MULTI JOG
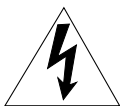PUSH ENTER

TEXT/TIME   MODE   MENU

TRACK NO.   COMPLETE   CLEAR

BOOKMARK

DIGITAL REC LEVEL

REC   FINALIZE   ERASE   INPUT   ANALOG REC LEVEL

OPTICAL

COAXIAL

ANALOG   MIN   MAX
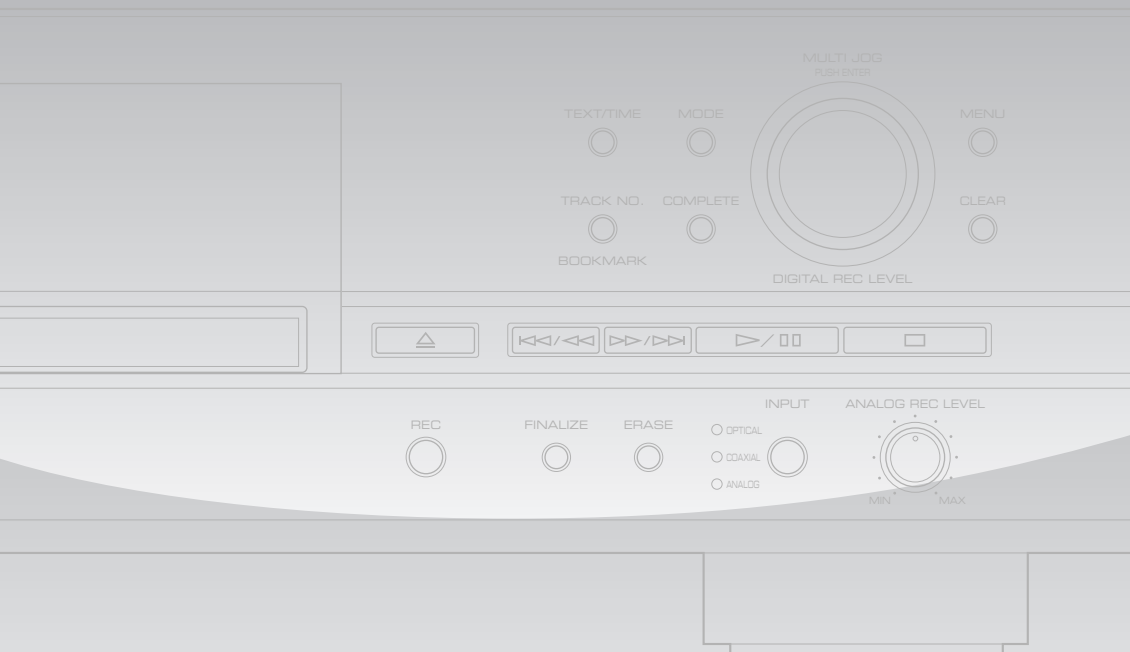
OWNER'S MANUAL
MODE D'EMPLOI

IMPORTANT SAFETY INSTRUCTIONS

CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF
ELECTRIC SHOCK, DO NOT REMOVE
COVER (OR BACK). NO USER-SERVICEABLE
PARTS INSIDE. REFER SERVICING TO QUALIFIED
SERVICE PERSONNEL.
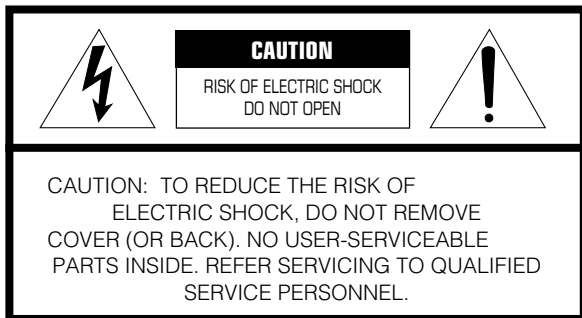
• Explanation of Graphical Symbols

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert you to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert you to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

IMPORTANT!

Please record the serial number of this unit in the space below.

Model:
Serial No.:

The serial number is located on the rear of the unit.
Retain this Owner's Manual in a safe place for future reference.

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1 Read these instructions.

2 Keep these instructions.

3 Heed all warnings.

4 Follow all instructions.

5 Do not use this apparatus near water.

6 Clean only with dry cloth.

7 Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.

8 Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

9 Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

10 Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

11 Only use attachments/accessories specified by the manufacturer.

12 Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

13 Unplug this apparatus during lightning storms or when unused for long periods of time.

14 Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

We Want You Listening For A Lifetime

YAMAHA and the Electronic Industries Association's Consumer Electronics Group want you to get the most out of your equipment by playing it at a safe level. One that lets the sound come through loud and clear without annoying blaring or distortion – and, most importantly, without affecting your sensitive hearing. Since hearing damage from loud sounds is often undetectable until it is too late, YAMAHA and the Electronic Industries Association's Consumer Electronics Group recommend you to avoid prolonged exposure from excessive volume levels.

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COMPLIANCE INFORMATION STATEMENT

(DECLARATION OF CONFORMITY PROCEDURE)

Responsible Party:	Yamaha Electronics Corporation, U.S.A.
Address:	6660 Orangethorpe Avenue
	Buena Park, CA 90620
Telephone:	714-522-9105
Fax:	714-670-0108
Type of Equipment:	HDD/CD Recorder
Model Name:	CDR-HD1500

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following conditions:

1) this device may not cause harmful interference, and

2) this device must accept any interference received including interference that may cause undesired operation.

See the "TROUBLESHOOTING" section at the end of this manual if interference to radio reception is suspected.

FCC INFORMATION (for US customers)

1. **IMPORTANT NOTICE: DO NOT MODIFY THIS UNIT!**

   This product, when installed as indicated in the instructions contained in this manual, meets FCC requirements. Modifications not expressly approved by Yamaha may void your authority, granted by the FCC, to use the product.

2. **IMPORTANT:** When connecting this product to accessories and/or another product use only high quality shielded cables. Cable/s supplied with this product MUST be used. Follow all installation instructions. Failure to follow instructions could void your FCC authorization to use this product in the USA.

3. **NOTE:** This product has been tested and found to comply with the requirements listed in FCC Regulations, Part 15 for Class "B" digital devices. Compliance with these requirements provides a reasonable level of assurance that your use of this product in a residential environment will not result in harmful interference with other electronic devices.

   This equipment generates/uses radio frequencies and, if not installed and used according to the instructions found in the users manual, may cause interference harmful to the operation of other electronic devices.

Compliance with FCC regulations does not guarantee that interference will not occur in all installations. If this product is found to be the source of interference, which can be determined by turning the unit "OFF" and "ON", please try to eliminate the problem by using one of the following measures:

Relocate either this product or the device that is being affected by the interference.

Utilize power outlets that are on different branch (circuit breaker or fuse) circuits or install AC line filter/s.

In the case of radio or TV interference, relocate/ reorient the antenna. If the antenna lead-in is 300 ohm ribbon lead, change the lead-in to coaxial type cable.

If these corrective measures do not produce satisfactory results, please contact the local retailer authorized to distribute this type of product. If you can not locate the appropriate retailer, please contact Yamaha Electronics Corporation, U.S.A. 6660 Orangethorpe Avenue, Buena Park, CA 90620.

The above statements apply ONLY to those products distributed by Yamaha Corporation of America or its subsidiaries.

CAUTION: READ THIS BEFORE OPERATING THIS UNIT

- To assure the finest performance, please read this manual carefully. Keep it in a safe place for future reference.
- Install this unit in a well ventilated, cool, dry, clean place – away from direct sunlight, heat sources, vibration, dust, moisture, and/or cold. Avoid ventilation space of at least 30 cm on the top, 20 cm on the left and right, and 10 cm on the back of this unit.
- Locate this unit away from other electrical appliances, motors, or transformers to avoid humming sounds.
- Do not expose this unit to sudden temperature changes from cold to hot, and do not locate this unit in a environment with high humidity (i.e. a room with a humidifier) to prevent condensation inside this unit, which may cause an electrical shock, fire, damage to this unit, and/or personal injury.
- Avoid installing this unit where foreign object may fall onto this unit and/or this unit may be exposed to liquid dripping or splashing. On the top of this unit, do NOT place:
    - Other components, as they may cause damage and/or discoloration on the surface of this unit.
    - Burning objects (i.e. candles), as they may cause fire, damage to this unit, and/or personal injury.
    - Containers with liquid in them, as they may fall and liquid may electrical shock to the user and/or damage to this unit.
- Do not cover the rear panel of this unit with a newspaper, tablecloth, curtain, etc. in order not to obstruct heat radiation. If the temperature inside this unit rises, it may cause fire, damage to this unit, and/or personal injury.
- Do not plug in this unit to a wall outlet until all connections are complete.
- Do not operate this unit upside-down. It may overheat, possibly causing damage.
- Do not use force on switches, knobs and/or cords.
- When disconnecting the power cord from the wall outlet, grasp the plug; do not pull the cord.
- Do not clean this unit with chemical solvents; this might damage the finish. Use a clean, dry cloth.
- Only voltage specified on this unit must be used. Using this unit with a higher voltage than specified is dangerous and may cause fire, damage to this unit, and/or personal injury. YAMAHA will not be held responsible for any damage resulting from use of this unit with a voltage other than specified.
- To prevent damage by lightning, disconnect the power cord from the wall outlet during an electrical storm.
- Do not attempt to modify or fix this unit. Contact qualified YAMAHA service personnel when any service is needed. The cabinet should never be opened for any reasons.
- When not planning to use this unit for long periods of time (i.e. vacation), disconnect the AC power plug from the wall outlet.
- Be sure to read the "TROUBLESHOOTING" section on common operating errors before concluding that this unit is faulty.
- Before moving this unit, first check that there is no disc in the disc tray. Finally, press POWER to turn off this unit, and disconnect the AC power plug from the wall outlet.

WARNING

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE.

Laser component in this product is capable of emitting radiation exceeding the limit for Class 1.

SPECIAL INSTRUCTIONS FOR U.K. MODEL

IMPORTANT

The wires in this mains lead are coloures in accordance with the following code:

GREEN-and-YELLOW:Earth
BLUE:Neutral
BROWN:Live

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug proceed as follows: The wire which is coloured GREEN-and-YELLOW must be connected to the terminal in the plug which is marked by the letter E or by the safety earth symbol ⏚ or coloured GREEN or GREEN-and -YELLOW. The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLACK. The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured RED.

For U.K. customers

If the socket outlets in the home are not suitable for the plug supplied with this appliance, it should be cut off and an appropriate 3 pin plug fitted. For details, refer to the instructions described above.

Note: The plug severed from the mains lead must be destroyed, as a plug with bared flexible cord is hazardous if engaged in a live socket outlet.

For Canadian Customers

To prevent electric shock, match wide blade of plug to wide slot and fully insert.
This Class B digital apparatus complies with Canadian ICES–003.

CD/CD-R/CD-RW COMPATIBLE WITH THIS UNIT

■ Discs that can be used for recording on this unit

Be sure to use only CD-R and CD-RW discs made by reliable manufacturers.
CD-R and CD-RW digital audio discs that display either of the following marks can be used with this unit.

COMPACT disc DIGITAL AUDIO Recordable   COMPACT disc DIGITAL AUDIO ReWritable

FOR CONSUMER
FOR CONSUMER USE
FOR MUSIC USE ONLY

■ Discs that can be used for recording

- CD-R discs can only be recorded on once, and the recorded material cannot be erased.
- CD-RW discs can be recorded on, have the recorded material erased, and then recorded on again.

■ Discs that cannot be used for recording on this unit

- Discs bearing marks other than those shown above.
- Discs intended for recording computer data.
- Discs intended for professional use or labeled "FOR PROFESSIONAL USE ONLY".

■ 79-minute CD-R disc

The actual recordable time of the CD-R disc with "80" written on its package is 79 minutes 57 seconds. This manual describes such CD-R disc as "79-minute CD-R disc".

■ Finalization of CD-R/CD-RW discs

To play back CD-R discs on a standard CD player and CD-RW discs on CD-RW-compatible players, you need to perform the process known as "finalization". In the finalization process, the Table of Contents (TOC) is written onto the discs.

Finalized CD-R discs

- CD-R discs can be played on a standard CD player.
- Further recording onto CD-R discs is not possible.
- Some CD players may not play back the finalized CD-R discs properly due to differences in the playback system of different manufacturers.

Finalized CD-RW discs

- CD-RW discs cannot be played on a standard CD player. CD-RW discs can be played back on CD-RW-compatible players such as this unit.
- Tracks written on CD-RW discs can be erased, and additional tracks can be recorded after the TOC has been erased.

■ Erasure or loss of data

Yamaha and suppliers accept no liability for the loss of data written on the HDD and CD-R or CD-RW discs, or any problems caused as a result of using this unit. As a precaution, it is recommended that the discs are tested after they have been recorded on. Furthermore, under no circumstances do Yamaha and suppliers guarantee the reliability of the discs.

■ Discs that can be played back

In addition to CD-R and CD-RW digital audio discs described previously, commercially available CDs bearing the marks shown below can also be played on this unit. If you use the CDs that do not meet CD standards, this unit may operate properly.

COMPACT disc DIGITAL AUDIO   COMPACT disc DIGITAL AUDIO TEXT

■ Playback of the CD-R disc copied with the Audio Master Quality Recording mode

The Audio Master Quality Recording mode enables you to create a CD with high quality sounds by increasing the linear velocity when copying. The CD-R discs copied with this mode meet the CD standards and can be played on a standard CD player. However, some CD recorders may not play back these CD-R discs properly.

■ Playback on DVD players

Before playing back a finalized CD-R or CD-RW discs on a DVD player, please check whether the DVD player is compatible with CD-R or CD-RW discs or not. Refer to the owner's manual of the DVD player for more information. CD-R or CD-RW discs cannot be played on a DVD player that is not compatible with CD-R or CD-RW discs.

IMPORTANT

- Please check the copyright laws in your country to record from records, CDs, radio, etc. Recording of copyright material may infringe copyright laws.


NOTES ON DISCS

■ Handling of discs

Heed the following notes on handling of discs not to create any cause for a recording failure, a loss of the recorded data, or a malfunction of this unit.

• This compact disc recorder is designed for use with CDs (including 8cm [3"] discs) bearing the following marks only. Never attempt to load any other type of disc into this unit.

• CDs are not subjected to wear during play. However if the disc is handled improperly, damage may be created on the disc to adversely affect the disc's play.

• When writing on the label side of CD-R or CD-RW discs, use an oil-based felt-tipped pen.

• Do not use cleaning discs or warped discs. All of these could damage this unit.

• Although playback of CDs is generally not affected by small particles of dust or fingerprints on their playing surface, dust, fingerprints, small scratches and direct sunlight on the recording surface of a CD-R or CD-RW disc may make recording impossible. Therefore, for optimal performance of the recorder and for long-term enjoyment of your CD collection, handle discs correctly as outlined in the following guidelines.

1. Hold discs by touching only the edges or center hole. When setting/removing a disc to/from the disc tray, be careful not to damage the disc surface.

2. When a disc is not currently being used, remove it from the recorder and store in an appropriate case.

3. With proper disc maintenance, cleaning should not be necessary. However, should cleaning be required, wipe by using a clean, dry cloth. Do not wipe with a circular motion; wipe straight outward from the center.
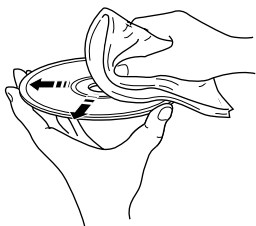

• Do not try to clean the disc's surface by using any type of disc cleaner, record spray, antistatic spray or liquid, or any other chemical-based liquid, because such substances might irreparably damage the disc's surface.

• Do not expose discs to direct sunlight, high temperature, or high humidity for a long period of time, because this might warp or otherwise damage the disc.

■ To prevent a malfunction of this unit

• Do not use any non-standard shaped CDs (heart, flower shaped, etc.) available on the market, because they are off-balance in their weight.
If a non-standard shaped CD is loaded into this unit, it may create problems such as improper playback, opening the disc tray, creating an usual noise, and this unit's failure.
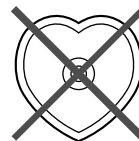
• Be sure to use a felt-tip pen or similar writing tool when writing on the label side of the disc. Do not use a ball-point pen, pencil, or other hard-tipped writing tool, as these may damage the disc and may adversely affect further recording on the disc.

• Do not use the discs with glue left on their surface. It may get stuck in this unit or create damage to this unit.

• When using an 8cm (3") disc, do not place a normal 12cm (5") disc on top of it.

• Do not use the discs printed with commercially available label printers.

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English

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FEATURES

♦ Beautiful design and easily-viewable front panel display

♦ Supporting 10x speed HDD recording, 8x speed CD-R copying, and 4x speed CD-RW copying

♦ Supporting high-capacity HDD (up to 400 GB HDD)

♦ Long continuous recording of external input source

♦ Digital (coaxial and optical) and analog input jacks

♦ Copying high-quality sounds with Audio Master Quality Recording (when copying onto CD-R discs)

♦ Bookmark feature for easy accesses to favorite tracks

♦ Timer playback (Auto Play) and timer recording features using a commercially available timer

♦ On-screen display feature for easy operations

♦ Various edit menus to customize music data on the HDD

ABOUT THIS MANUAL

■ Structure

This owner's manual is composed of following sections.

1. GETTING STARTED

This section explains necessary preparations such as remote control and connection. Please read this before using this unit.

2. BASIC OPERATIONS

This section explains frequently used operations such as group/track selection or playback features.

3. HDD RECORDING

This section explains how to copy data from CDs to the HDD or record external playback sources onto the HDD.

4. CD-R/CD-RW COPYING

This section explains how to copy data from the HDD to a CD-R or CD-RW disc, duplicate a CD (copy from a CD to a CD-R/CD-RW), or finalize a CD-RW disc.

5. EDITING

This section explains how to edit data (albums, tracks, and discs) on the HDD. For the guideline, please refer to "LIST OF EDIT MENU" (P.50).

6. OTHER FEATURES

This section explains how to check the HDD information or change the system settings.

7. APPENDIX

This section provides you with the information about system setting of this unit and troubleshooting.

■ About this manual

• This manual is printed prior to production. Design and specifications are subject to change in part for the reason of the improvement in operativity ability, and others. In this case, the product has priority.

• Some of the illustrations and names of the package contents etc written in this manual may differ from the actual products and the names written on the package etc.

Make sure the following items are included in your package.

• Remote Control
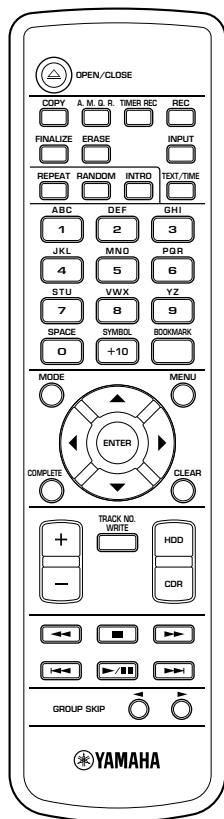
• Batteries (size AA, UM-3, or R6) (2)
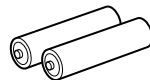
• Audio Pin Cables (2)
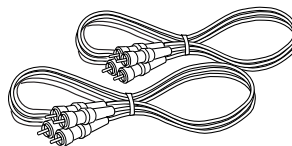
• Optical Cable
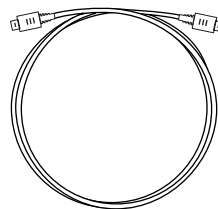
• Video Pin Cable
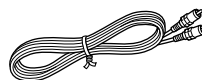
• Power Cable (for U.S.A. model)
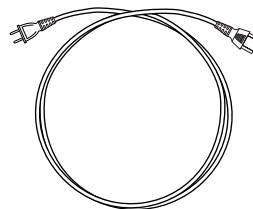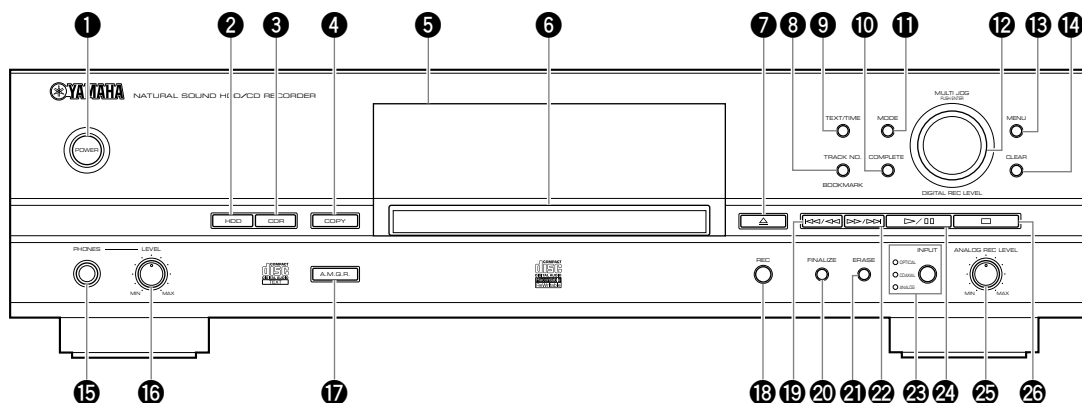
■ Front panel

❶ POWER

Turns on/off this unit (P.14).

❷ HDD

Sets the unit to the HDD operation mode (P.14).

❸ CDR

Sets the unit to the CDR drive operation mode (P.14).

❹ COPY

Sets the unit to the copy standby mode.

❺ Front panel display

Displays information on the current playback or recording. You can switch information by pressing TEXT/TIME (P.18).

❻ Disc tray

Set a disc on here when playing a CD, recording track data from a CD to the HDD, or copying track data from the HDD to a CD-R or CD-RW disc.

❼ ⏏ (Open/Close)

Opens or closes the disc tray.

❽ TRACK NO./BOOKMARK

Adds track markers (P.37) or bookmarks (P.24) to favorite tracks.

❾ TEXT/TIME

Switches display information (P.18).

❿ COMPLETE

Confirms specified operations or selected items.

⓫ MODE

Press the button when configuring the settings of the playback, recording, and copy modes.

⓬ MULTI JOG knob/DIGITAL REC LEVEL control

Normally, press to switch between the GROUP and TRACK modes, and rotate to select a group (disc or album) or track.

In the menu screen, rotate to select items or adjust parameters, and press to decide.

⓭ MENU

Displays the menu screen corresponding to the current status of the unit.

⓮ CLEAR

Deletes the selected item or clears the setting.

⓯ PHONES jack

Connect headphones (P.25).

⓰ PHONES LEVEL control

Adjusts the headphone volume when connecting headphone to the PHONES jack (P.25).

⓱ A.M.Q.R.

Turns on/off the Audio Master Quality Recording (P.41, 46) when copying data onto a CD-R disc.

⓲ REC

Sets the unit to the recording standby mode.

⓳ ⏮/◁◁ (Skip/Search)

Press to skip to the beginning of a current track (press repeatedly to skip to a previous track), and press and hold to fast-rewind the current playback (P.19).

⓴ FINALIZE

Starts to finalize a CD-R or CD-RW disc (P.47).

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GETTING STARTED

㉑ **ERASE**

Select items to be erased when erasing data (track data or TOC) from a CD-RW disc (P.48).

㉒ ▷▷/▷▷⊢ **(Search/Skip)**

Press to skip to a next track and press and hold to fast-forward the current playback (P.19).

㉓ **INPUT**

Switches input sources (OPTICAL, COAXIAL, and ANALOG) (P.31). The lamp for the selected input lights up.

㉔ ▷/❙❙ **(Play/Pause)**

Starts playback of the currently selected group or track. Pressing the button during playback stops the playback temporarily (P.19).

In the copy or recording standby mode, press the button to start recording.

㉕ **ANALOG REC LEVEL control**

Adjust the recording level when recording analog sources (P.34).

㉖ ☐ **(Stop)**
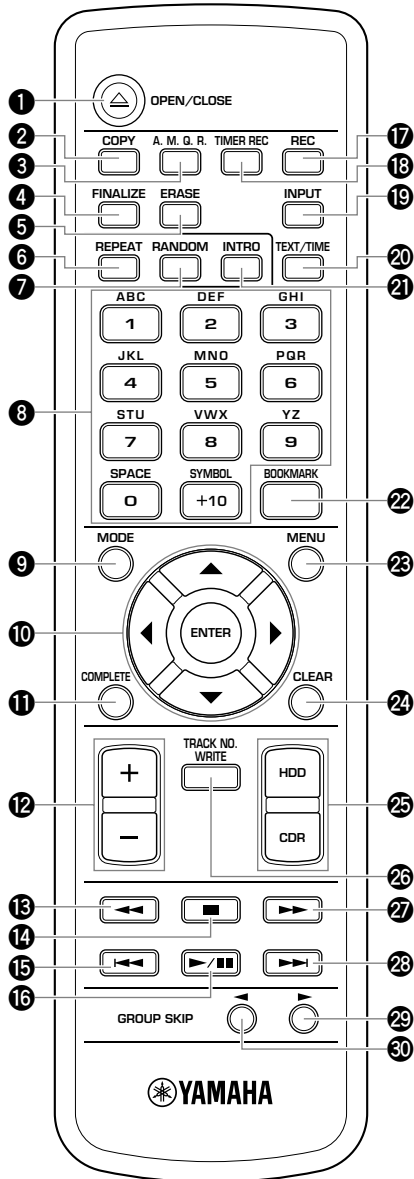
Stops playback (P.19).

English

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■ Remote control

❶ ⏏ **OPEN/CLOSE**

Opens or closes the disc tray.

❷ **COPY**

Sets the unit to the copy standby mode.

❸ **A.M.Q.R.**

Turns on/off the Audio Master Quality Recording (P.41, 46) when copying data onto a CD-R disc.

❹ **FINALIZE**

Starts to finalize a CD-R or CD-RW disc (P.47).

❺ **ERASE**

Select items to be erased when erasing data (track data or TOC) from a CD-RW disc (P.48).

❻ **REPEAT**

Turns on/off the Repeat Play (Single Repeat and Full Repeat) mode (P.21, 22).

❼ **RANDOM**

Turns on/off the Random Play mode (P.22).

❽ **Alphabetical/numeric buttons**

Selects track number to be played back or enters titles of albums or tracks.

❾ **MODE**

Press the button when configuring the settings of the playback, recording, and copy modes.

❿ **Cursor buttons (▲, ▼, ◄, ►), ENTER**

Normally, press ENTER to switch between the GROUP and TRACK modes. If the unit is in the GROUP mode, press ▲ or ▼ to select a group, and press ◄ or ► to select a track. If the unit is in the TRACK mode, press the cursor buttons to select a track.

In the menu screen, press the cursor buttons to select items or adjust parameters, and press ENTER to decide.

⓫ **COMPLETE**

Confirms specified operations or selected items.

⓬ **+/–**

Press + to move to the next menu and press – to move to the previous menu. Also, you can use these buttons to adjust parameters.

⓭ **◄◄ (Search)**

Press and hold to fast-rewind the current playback (P.19).

⓮ **■ (Stop)**

Stops playback (P.19)

⓯ **I◄◄ (Track Skip)**

Press to skip to the beginning of the current track (press repeatedly to skip to the previous track) (P.19).

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GETTING STARTED

⑯ ►/▮▮ **(Play/Pause)**

> Starts playback of the currently selected group or track.
> Pressing the button during playback stops the playback
> temporarily (P.19).
>
> In the copy or recording standby mode, press the button to
> start recording.

⑰ **REC**

> Sets the unit to the recording standby mode.

⑱ **TIMER REC**

> Press the button when configuring the time for timer
> recording (P.32).

⑲ **INPUT**

> Switches input sources (OPTICAL, COAXIAL, and
> ANALOG) (P.31). The lamp for the selected input lights up.

⑳ **TEXT/TIME**

> Switches display information (P.18).

㉑ **INTRO**

> Turns on/off the Intro Play mode (P.23).

㉒ **BOOKMARK**

> Adds bookmarks to favorite tracks (P.24).

㉓ **MENU**

> Displays the menu screen corresponding to the current status
> of the unit.

㉔ **CLEAR**

> Deletes the selected item or clears the setting.

㉕ **HDD, CDR**

> Switches the unit between the HDD and CDR drive
> operation modes (P.14).

㉖ **TRACK NO. WRITE**

> Adds track markers to tracks (P.37).

㉗ ►► **(Search)**

> Press and hold to fast-forward the current playback (P.19).

㉘ ►►▮ **(Track Skip)**

> Press to skip to the next track (P.19).

㉙ **GROUP SKIP ►**

> Press to skip to the next group (P.19).

㉚ **GROUP SKIP ◄**

> Press to skip to the previous group (P.19).

English
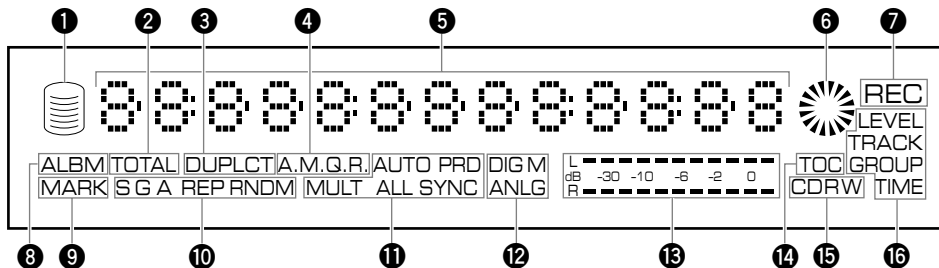
■ Display

❶ HDD mark

Lights when the unit is in the HDD operation mode.

❷ TOTAL indicator

Lights when the total time (elapsed or remaining time) is displayed.

❸ DUPLCT indicator

Lights when the unit is in the copy standby mode or copying process when duplicating a CD.

❹ A.M.Q.R. indicator

Lights when the Audio Master Quality Recording is turned on.

❺ Information display

Displays information (playback/recording time, titles, etc) on the selected drive. You can switch information by pressing TEXT/TIME (P.18).

❻ CDR mark

Lights when a disc is set in the disc tray and the unit is in the CDR operation mode.

❼ REC indicator

Lights when the unit is in the copy standby mode or copying process when recording/copying onto the HDD, CD-R disc, or CD-RW disc.

❽ ALBM indicator

Lights when selecting an album.

❾ MARK indicator

Lights when selecting a bookmarked track.

❿ Playback mode/play style indicator
G indicator

Lights when "Style Group" is set as the play style.

A indicator

Lights when "Style All" is set as the play style.

REP indicator

Lights when the Repeat Play mode is turned on. When selecting the Single Repeat mode, "S REP" appears.

RNDM indicator

Lights when the Random Play mode is turned on.

⓫ Recording/copying mode indicator
AUTO indicator

Lights when any AUTO feature is turned on. When selecting the auto-period recording, "AUTO PRD" appears.

SYNC indicator

Lights when the unit is in a synchronized copying mode. When selecting the multi-synchronized copying, "MULT SYNC" appears, and when selecting the all-synchronized copying, "ALL SYNC" appears.

⓬ Copying method indicator
DIG indicator

Lights when the unit is in the digital copy process. When the unit is in the Digital Move process, "DIG M" appears.

ANLG indicator

Lights when the unit is in the analog copy process.

⓭ Level meter

Displays the recording level or the progress of an executed process (finalization, etc).

⓮ TOC indicator

Lights when a disc set in the disc tray has a TOC (disc information).

⓯ Disc indicator

Displays the type of a disc set in the disc tray.

⓰ MULTI JOG status indicator

Displays the currently selected MULTI JOG status (items or settings controlled by MULTI JOG knob operations).

8

1

■ **Rear panel**

For details about HDD installation, refer to "INSTALLING THE HDD" of the "HDD Installation Manual". For details about how to connect other components, refer to "CONNECTIONS" (P.10).
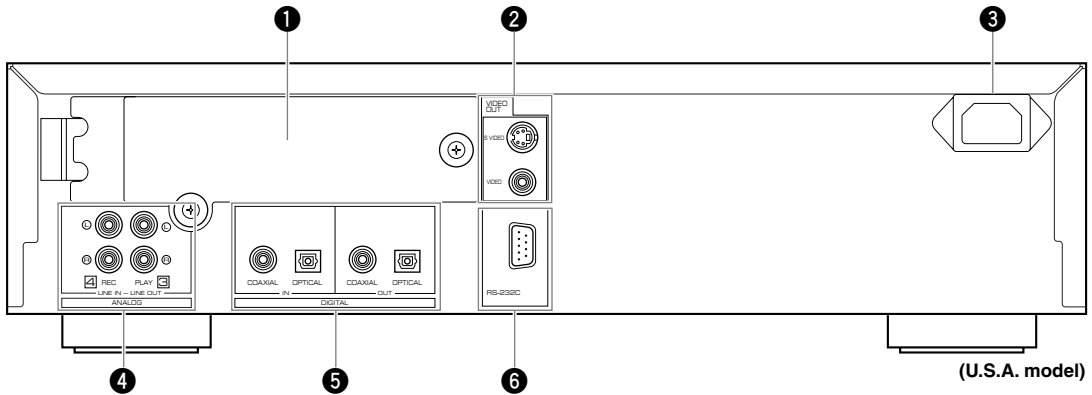
(U.S.A. model)

❶ **HDD slot**

Open the cover when replacing the HDD.

❷ **VIDEO OUT jacks**

S VIDEO jack

Outputs S-video signals.

VIDEO jack

Outputs composite video signals.

❸ **AC inlet (U.S.A. model only)**

Plug the power cable to this inlet. (Be sure to connect the power cable after connecting all other cables.)

❹ **ANALOG jacks**

ANALOG LINE IN (REC) jacks

Inputs analog signals.

ANALOG LINE OUT (PLAY) jacks

Outputs analog signals.

❺ **DIGITAL jacks**

DIGITAL IN (COAXIAL) jack

Inputs digital signals.

DIGITAL IN (OPTICAL) jack

Inputs digital signals.

DIGITAL OUT (COAXIAL) jack

Outputs digital signals.

DIGITAL OUT (OPTICAL) jack

Outputs digital signals.

❻ **RS-232C terminal**

This terminal is for connecting a personal computer. Information about connection software is to be announced on the YAMAHA Website (http://www.yamaha.co.jp/english/product/av/).

English

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CONNECTIONS

Turn off the power of this unit and the other components, and unplug them from the wall outlet before making any connections. Follow the diagram below to make connections with proper cables.

Digital connections

• To output signals from this unit to an external component, connect DIGITAL OUT jack of this unit to the digital input jack of the external component. To input signals from an external component to this unit, connect DIGITAL IN jack of this unit to the digital output jack of the external component.

• This unit cannot input digital signals other than PCM signals.

Analog connections

• To output signals from this unit to an external component, connect ANALOG LINE OUT jack of this unit to the analog input jack of the external component. To input signals from an external component to this unit, connect ANALOG LINE IN jack of this unit to the analog output jack of the external component. Be sure to connect L (left) and R (right) jacks respectively

• To connect the turntable directly to this unit, first connect it to the phono equalizer and then connect to the ANALOG LINE IN (REC) jacks on this unit.

> **Memo**
>
> • When you play the data on the HDD or CDs, signals are output both from the ANALOG LINE OUT (PLAY) jack and from the DIGITAL OUT (OPTICAL/COAXIAL) jacks.
>
> • Signals that are output through the DIGITAL OUT (OPTICAL) jacks or the DIGITAL OUT (COAXIAL) jacks while playing the data on the HDD do not have information about the track markers. Therefore if these signals are recorded by an MD player, the track markers may not be placed correctly on the recorded MD disc.

Arrow marks (→) in the illustration below indicate the direction of signals.
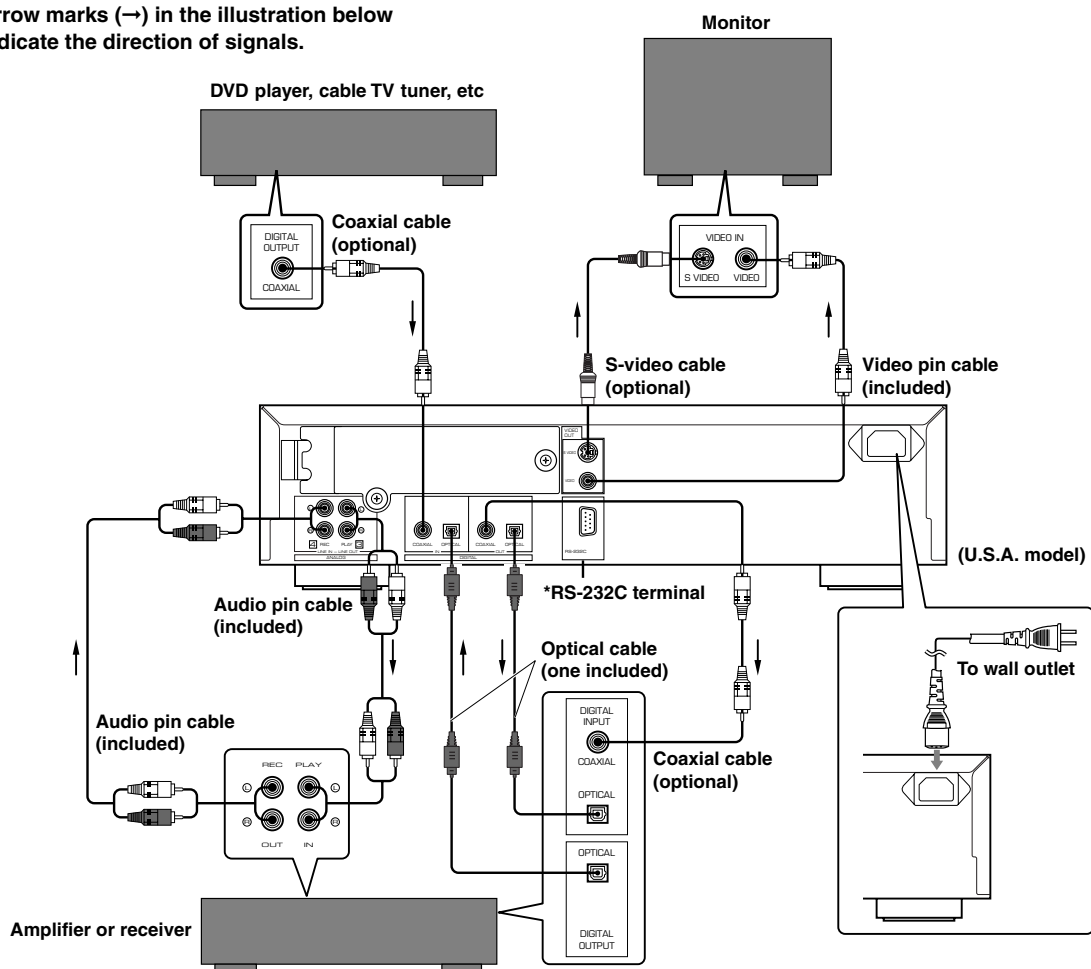
* **This terminal is for connection of the personal computer. Information about the connection software is to be announced on the YAMAHA Website (http://www.yamaha.co.jp/english/product/av/).**

1

Connecting a monitor

You can display the list of groups or tracks to be played, copying/recording settings or the list of setting items on the monitor by connecting the monitor to this unit. Connect the S VIDEO jack or the VIDEO jack whichever available on your monitor.

Connecting the power cable

[U.S.A. model]

Plug the power cable into the AC inlet when all connections are complete, and then plug in the power cable to the wall outlet.

[Europe, U.K. and Australia models]

Plug in this unit to the wall outlet when all connections are complete.

PREPARING THE REMOTE CONTROL

■ Installing batteries

1. **Press the hook (△) of the battery cover to remove it.**

2. **Insert 2 batteries (AA, UM-3 or R6 type) according to the polarity markings on the inside of the battery compartment.**

3. **Close the cover until it snaps into place.**
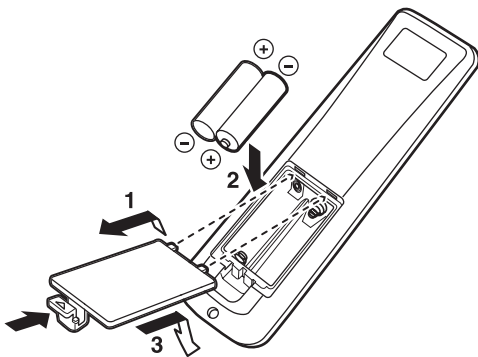
Battery replacement

If you find that the remote control must be used closer to this unit than usual, the batteries are weak. Replace both batteries with new ones.

Notes on batteries

- Use only AA, UM-3, or R6 type batteries for replacement.
- Do not mix a new battery with a used one.
- A rechargeable battery cannot be used.
- Do not mix different types of battery.
- Do not attempt to short out the batteries by directly connecting the plus (+) and the minus (–) with a piece of metal.
- Remove the batteries if the remote control will not be used for an extended period of time.
- If the batteries leak, dispose of them immediately, taking care not to touch the battery fluid. If the battery fluid comes into contact with your eyes, mouth, or skin, rinse it off with water immediately, and consult a doctor. Clean the battery compartment thoroughly before installing new batteries.

■ Remote control operation range

Remote control sensor

Within 6m (20')

30° 30°
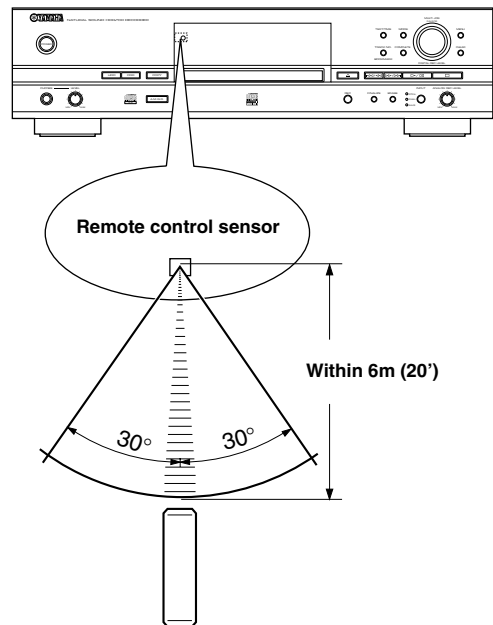
Notes

- If operation of this unit by the remote control creates any malfunction in any other components, change the placement of the component.
- Do not spill any liquid on or drop the remote control. Do not place it near a heater or in the bathroom where the temperature and humidity become high.
- Make sure the remote control sensor is not exposed to direct sunlight or strong lights. If it is, it may not function correctly.

English

11

BASIC OPERATIONAL FLOW

Once you have finished all connections (P.10) and prepared the remote control (P.11), please follow the procedure below to copy music data from a CD to the HDD and listen to it!
(In this procedure, we use a remote control to operate the unit although buttons on the unit control it in the same way.)
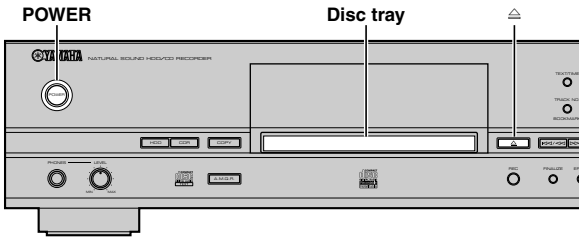
POWER   **Disc tray**   ⏏

① **Press POWER on the unit to turn it on.**

The display shows the "WELCOME" message, then the unit becomes ready to operate.

② **Set a CD on the disc tray.**

Press ⏏ to open/close the disc tray.

Place a CD properly as aligned in the recess with its label side facing up.
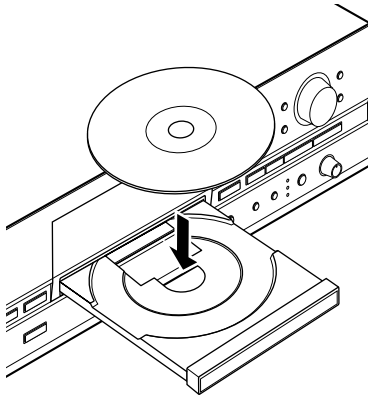
The unit starts to read the disc information (disc type and disc capacity), then "Reading" appears in the display (the process may take 10 to 20 seconds depending on the disc condition).

```
-Reading-                \
                L  -30 -10 -6 -2  0
                R
```

When the disc information is read completely, the display changes as follows, and the unit becomes ready to be operated.

Total number of tracks   **Total time**

```
 14      6817 ☼
         L  -30 -10 -6 -2  0   TOC GROUP
         R                     CD
```

⬇

```
 1        :    ☼
         L  -30 -10 -6 -2  0   TOC GROUP
         R                     CD
```

COPY

HDD

■

►/Ⅱ
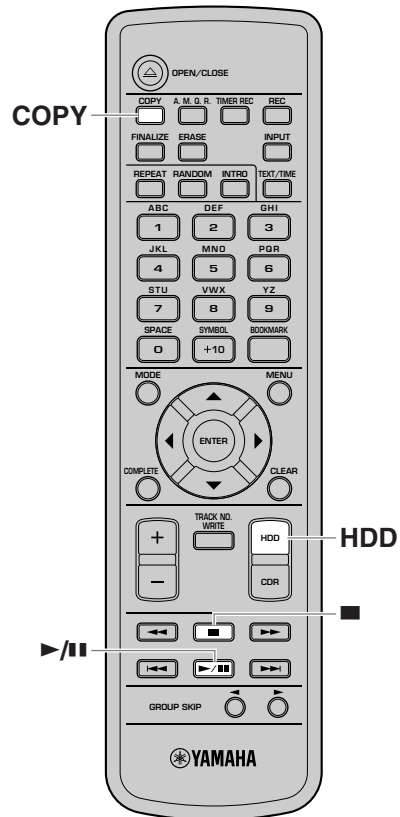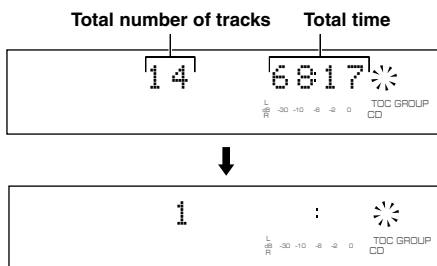
③ **Press COPY once to set the unit to the copy standby mode.**

The HDD and CDR marks in the display start to blink.

```
☐001· 1⏴ 1     0:00 ☼ REC
          DIG                TOC GROUP
ALL SYNC     L  -30 -10 -2  0   CD
             R
```

12

2
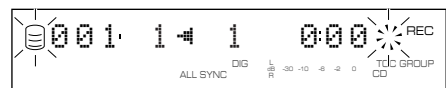
④ **Press ►/❚❚ to start copy.**

The display shows the progress of the copy process.

```
☐001· 1 ◄ 1    001 \ REC
              DIG  L           TOC GROUP
        ALL SYNC  R -30 -6 -2 0  CD
```

⑤ **When copy is finished, press HDD to select the HDD.**

The HDD mark in the display lights and HDD information appears.

```
☐D001· 1       6545
  TOTAL        L                GROUP
  G            R -30 -6 -2 0
```
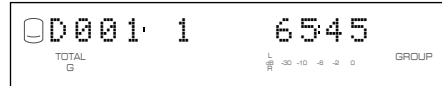
⑥ **Press ►/❚❚ to start playback of the tracks you just recorded on the HDD.**

To skip tracks or fast-rewind/-forward, refer to "PLAYING BACK THE HDD OR CD" (P.19).
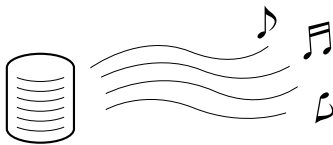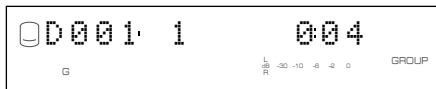
⑦ **To stop playback, press ■.**

If you press ►/❚❚ again, playback starts from the beginning of the currently selected track.

```
☐D001· 1       004
  G            L                GROUP
             R -30 -6 -2 0
```

Now, please try various features of this unit!

•To enjoy playback with Repeat Play, Random Play, Intro Play features
"USEFUL PLAYBACK OPERATIONS" (P.20-23)

•To start playback automatically using external timer
"Starting playback automatically (Auto Play)" (P.75)

•To copy from the HDD to CD-R/CD-RW discs
"COPYING FROM THE HDD ONTO A CD-R/CD-RW DISC" (P.38-44)

•To record external sources on the HDD
"RECORDING FROM AN EXTERNAL COMPONENT ONTO THE HDD" (P.31-37)

•To edit the HDD data (albums, tracks and discs)
"5. EDITING" (P.50-70)

This unit equips various useful features other than those above.
Please read this manual carefully and enjoy pleasant music environment with this unit.

TURNING ON/OFF THE UNIT

POWER
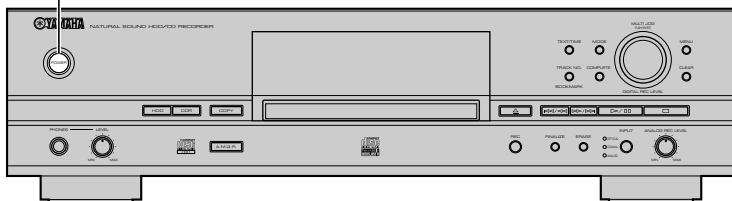
Press POWER on the front panel.

When the unit turns on, the message "WELCOME TO YAMAHA HDD/CD SYSTEM" appears on the front panel display, then the unit becomes ready to be operated.

For information on specifications such as power consumption, refer to "SPECIFICATIONS" (P.83).

SELECTING THE OPERATIONAL DRIVE (HDD/CDR)

This unit equips the HDD and CDR drive. When operating the unit, you need to select HDD or CDR drive in accordance with your purpose.

HDD CDR
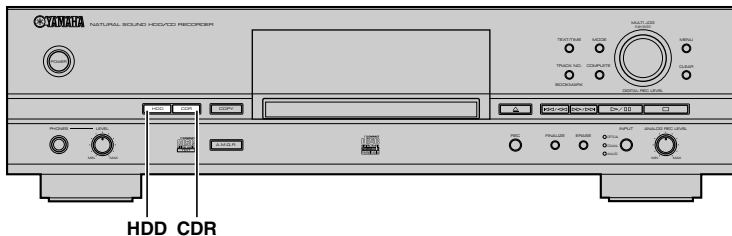
To operate the HDD drive, press HDD.

The HDD mark lights in the display, and the disc information appears.

To operate the CDR drive, press CDR.

The unit starts to read the information of a disc set in the disc tray. When the disc information is read completely, the CDR mark lights in the display, and the disc information appears.

When no disc is set in the disc tray, the message "No Disc" appears.

Memo

If you set a disc in the disc tray, the unit automatically switches to the CDR drive operation mode.

14
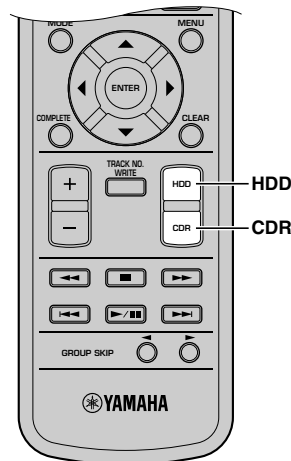
SELECTING THE GROUP OR TRACK MODE

When starting playback or recording, you need to select the group or track mode at first, and then select an item (disc, album, track, etc) to operate. The types of group you can select vary depending on the drives (HDD and CDR drive). For details, refer to "Data on the HDD" (P.16) and "Data on CDs" (P.17).
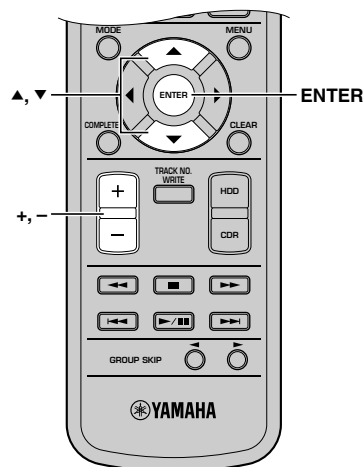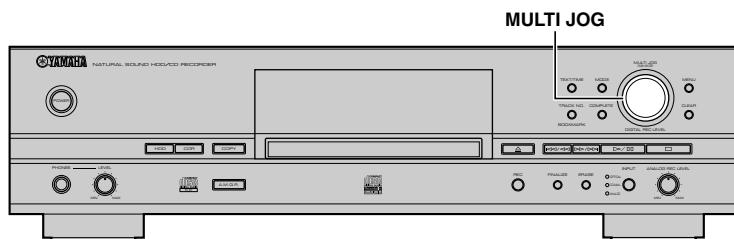
MULTI JOG

▲, ▼

ENTER

+, –

1. **Press the MULTI JOG knob (ENTER on the remote control) to switch between the group and track mode.**

When the group mode is selected, GROUP indicator lights.
When the track mode is selected, TRACK indicator lights.

GROUP indicator

LIVE AT CRANE

When the group mode is selected

TRACK indicator

PRIDE AND JOY

When the track mode is selected
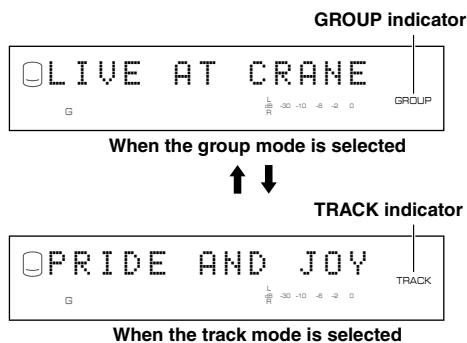
2. **Rotate the MULTI JOG knob (press +/–, ▲ or ▼ on the remote control) to select an item to operate.**

If you select the GROUP mode in step 1, the item changes as follows:

(When the unit is in the HDD operation mode)

Disc (1, 2...) ←→ Album (1, 2...) ←→ Bookmark

(When the unit is in the CDR operation mode)

Disc ←→ Bookmark

If you select the TRACK mode in step 1, the item changes as follows:

Track1 ←→ Track2... ←→ Track99

3. **Start operations (playback, recording, etc) for any purpose.**

For details on playback operations, refer to "PLAYING BACK THE HDD OR CD" (P.19). For details on recording operations, refer to "3. HDD RECORDING" (P.26-37) or "4. CD-R/CD-RW COPYING" (P.38-49).

■ Data on the HDD

The data recorded onto the built-in HDD of this unit will be numbered and organized based on the following concept:

Group

A collection of disc(s), album(s), and a bookmark are generically called "group".

Disc

One consequent recording is counted and numbered as one unit of disc. The HDD of this unit can record 999 discs at maximum. (However, the number of discs to be created may be less than 999 for the space availability on the HDD.) The maximum length of one disc on the HDD is 179 minutes 59 seconds.

Album

A group of the source programs selected from different discs and recorded as the playlist is called "album". "Album" corresponds to the "program" function (to play back favorite tracks in the desired order) of a standard CD player. This unit can record 999 albums at maximum onto the HDD.

Bookmark

This unit can make a temporary bookmark on a favorite track as playing back. The list of the program sources marked is called "bookmark". This marking is temporary and cannot be duplicated. However, an album can be easily created by copying the bookmarked tracks (P.54).

Track

99 tracks can be recorded onto a disc at maximum. (However the number of discs tracks to be recorded may be less than 99 for the space availability on the HDD.) One track must be 4 seconds at shortest and 179 minutes 59 seconds at longest.
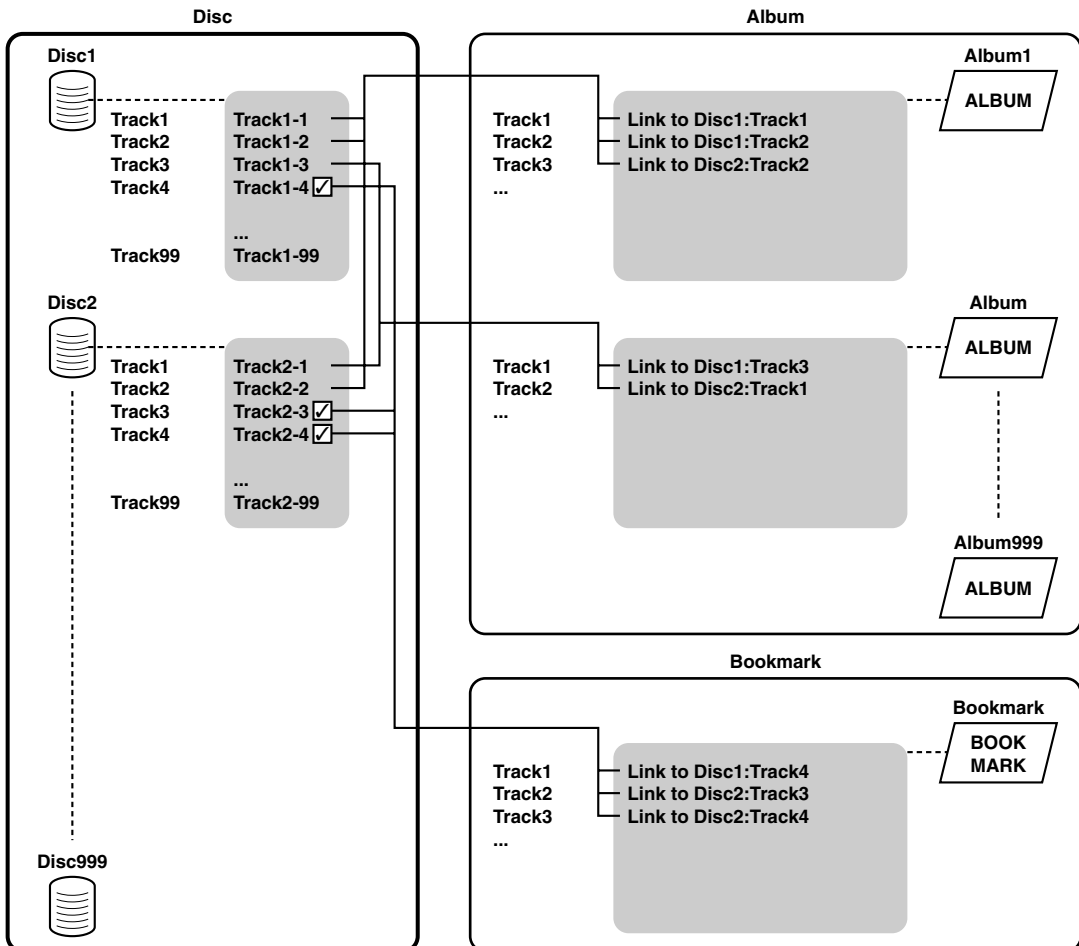
Memo

• Albums and bookmark list do not include any track data in themselves. They recall track data saved in discs using links.

• When playing the bookmark list, tracks are played in the order you added a bookmark.

■ Data on CDs

You can operate CDs (including CD-R and CD-RW) set in the CDR drive by group (disc or bookmark) or track.

Group

When operating CDs (including CD-R and CD-RW), you can select disc or bookmark as a group. Since the unit can only read one disc at a time, the number of discs available on a CD is always one. In addition, bookmarks on a CD will be erased if CD is removed from the unit or the unit is turned off.

Track

The number of tracks recorded onto a disc varies. Also, storage capacity varies depending types of discs. For details, refer to descriptions stated in each disc.

2

BASIC OPERATIONS

Disc

```
Disc (CD)

  ◎ ┄┄┄┄┄┄┄
        Track1      Track1   ☑
        Track2      Track2
        Track3      Track3
        Track4      Track4   ☑

                    ...
        Track99     Track99  ☑
```

Bookmark

Bookmark

```
        Track1   ── Link to Track1 on the disc
        Track2   ── Link to Track4 on the disc       BOOK
        Track3   ── Link to Track99 on the disc       MARK
```
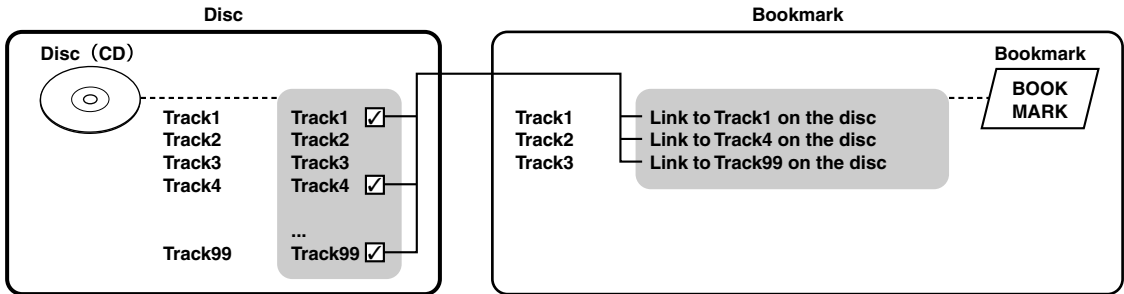
SWITCHING DISPLAY INFORMATION

The display located in the center of this unit provides the information about the drive (HDD or CDR drive) selected.

Each time TEXT/TIME is pressed, the display changes according to the operation.

Display while playing the data on the HDD

Group number, track number and elapsed time of the track being played

```
D001· 1      004
G                          GROUP
```

Group number, track number and remaining time of the track being played

```
D001· 1   - 221
G                          GROUP
```
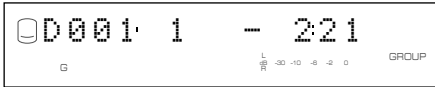
Group number and group total time

```
D001· 1     6545
TOTAL
G                          GROUP
```

Group number and group remaining time

```
D001· 1   -6240
TOTAL
G                          GROUP
```
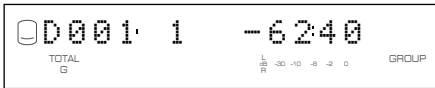
Group title or track title

Group title

```
LIVE  AT  CRANE
G                          GROUP
```

Track title

```
PRIDE  AND  JOY
G                          TRACK
```
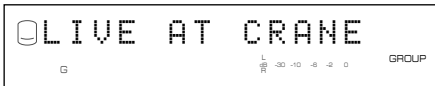
The group title with the GROUP indicator and the track title with the TRACK indicator are switched by pressing the MULTI JOG knob.

Display while recording onto the HDD

Disc number, track number and elapsed time of the track being recorded

```
D001· 1      004   REC
```

Disc number and total recorded time on the disc

```
D001·      1543   REC
TOTAL
```

Display while playing a CD

Track number and elapsed time of the track being played

```
1      004 \
TOC GROUP
CD
```

Track number and remaining time of the track being played

```
1   - 221 \
TOC GROUP
CD
```

Disc total time

```
6545 \
TOTAL                      TOC GROUP
CD
```
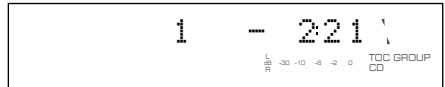
Disc remaining time

```
-6240 \
TOTAL                      TOC GROUP
CD
```

CD TEXT (when available)

Disc title

```
LIVE  AT  CRANE \
TOC GROUP
CD
```

Track title

```
PRIDE  AND  JOY \   TRACK
TOC
CD
```

Display while recording onto a CD-R or CD-RW disc

Track number and elapsed time of the track being recorded

```
1      004 /   REC
GROUP
CDRW
```

Total recorded time on a disc

```
1543 /   REC
TOTAL                      GROUP
CDRW
```

Total recordable time on a disc

```
1   - 221 /   REC
TOTAL                      GROUP
CDRW
```
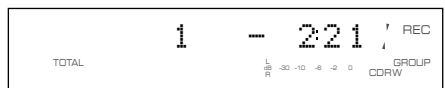
PLAYING BACK THE HDD OR CD

Follow the procedure below to carry out basic playback operations. This unit also provides various useful functions for playback. For details, refer to "USEFUL PLAYBACK OPERATIONS" (P.20-23).

MULTI JOG

Alphabetical/ numeric buttons

Cursor buttons

+, −

GROUP SKIP buttons

◁◁/◁◁ ▷▷/▷▷ ▷/▯▯ □
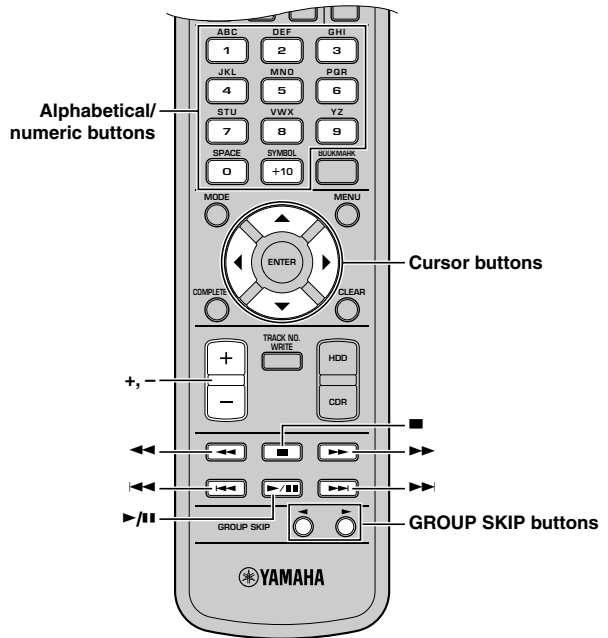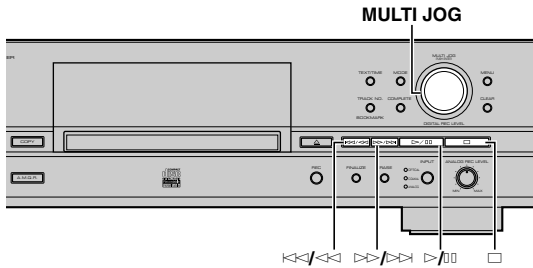
To start playback

After selecting a group or track (P.15), press ▷/▯▯.

To stop playback

Press □.

Memo

If you press ▷/▯▯ after playback is stopped by pressing □, the unit automatically starts playback from the beginning of the track that has been stopped (Resume Play). To cancel the Resume Play feature, press □ while playback is stopped. In this case, the unit starts playback from the beginning of the first track recorded on a disc (or an album) or a CD.

To stop playback temporarily (Pause)

Press ▷/▯▯ during playback. To restart playback, press ▷/▯▯ again.

To fast-rewind or fast-forward

To fast-rewind, press and hold ◁◁/◁◁ (◀◀ on the remote control) during playback. To fast-forward, press and hold ▷▷/▷▷ (▶▶ on the remote control) during playback. To return to normal playback, release the button.

Memo

• You can also use the search feature while playback pauses. In this case, the unit does not output any sounds while searching.

• Neither search nor pause is possible at the interval added by "Tr. Interval" in the album edit menu (P.57).

To skip tracks

To skip to beginning of the current track, press ◁◁/◁◁ (◀◀ on the remote control) once.

To skip to a previous track, press ◁◁/◁◁ (◀◀ on the remote control) twice.

To skip to a next track, press ▷▷/▷▷ (▶▶ on the remote control).

Memo

• You can also skip a track by rotating MULTI JOG knob (pressing +/– or the cursor buttons on the remote control) while the unit is in the track mode (P.15).

• You can also directly select a track number by pressing alphabetical/numerical buttons.

To skip groups

To skip to a previous group, press GROUP SKIP ◀ on the remote control.

To skip to a next group, press GROUP SKIP ▶ on the remote control.

Memo

You can also skip a group by rotating MULTI JOG knob (pressing +/–, ▲ or ▼ on the remote control) while the unit is in the group mode (P.15).

You can enjoy playback with various useful features with this unit.

■ Searching by elapsed time (Time Search)

You can search the desired part by setting the time.

1. **Press MODE to enter the playback mode setting.**

"Time Search" appears on the display.

> ▤Time Search
>
> G   L R -30 -10 -6 -2 0

2. **Press the MULTI JOG knob (ENTER on the remote control).**

The following message appears on the display.

> ▤D001· 1 S   500
>
> G   L R -30 -10 -6 -2 0   TIME

3. **To switch between minute and second, press ⊲⊲/⊲⊲ or ▷▷/▷▷ (◄◄, ►►, ◄ or ► on the remote control). To specify time, rotate the MULTI JOG knob (press +/–, ▲ or ▼ on the remote control).**

If you stop rotating the MULTI JOG knob, this unit starts searching the set time and starts playback from the set time.

> **Memo**
>
> • You can skip to other tracks by pressing ◄◄ or ►► on the remote control. When the track is skipped to another track, the set time will be reset to "0:00".
> • You can skip to other groups by pressing GROUP SKIP ◄ or GROUP SKIP ► on the remote control. When the group is skipped to another group, the set time will be reset to "0:00".
> • You cannot search (P.19) during the time search mode.
> • You cannot search by time during the random play (P.22) or the intro play (P.23).

4. **Press ▷/❚❚ or MODE to return to the normal playback.**

■ Setting the play style

Only when playing sources recorded on the HDD, you can set the play style. The play style setting changes the range of playback.

1. **While the unit is in the HDD operation mode, press MODE to display the playback mode setting.**

2. **Rotate the MULTI JOG knob (press +/–, ▲ or ▼ on the remote control) to display "Play Style".**

> ▤Play Style
>
> G   L R -30 -10 -6 -2 0

3. **Press the MULTI JOG knob (ENTER on the remote control) to start the play style setting.**

4. **Rotate the MULTI JOG knob (press +/–, ▲ or ▼ on the remote control) to display "Style All" or "Style Group".**

> ▤Style All
>
> A   L R -30 -10 -6 -2 0

> ▤Style Group
>
> G   L R -30 -10 -6 -2 0
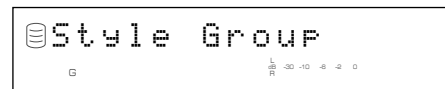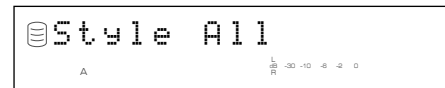
5. **Press the MULTI JOG knob (ENTER on the remote control) to confirm the selection.**

When selecting "Style All"

The A indicator lights on the display.

> A
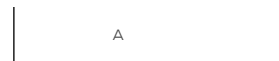
Random play, full repeat play, or intro play can be set for one of the group categories (disc, album, and bookmark) recorded on the HDD.

| Disc 1 |
| Disc 2 |
| Album 1 |
| Album 2 |
| Bookmark |

Group category for making a setting
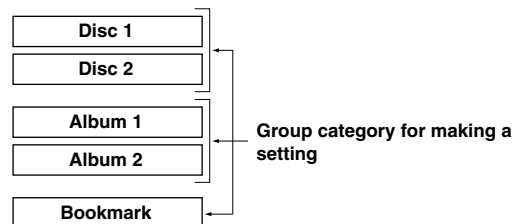
- When random play is set, all tracks that belong to the selected group category are played in a random sequence.
- When full repeat play is set, all tracks that belong to the selected group category are repeatedly played.
- When intro play is set, the beginnings of all tracks that belong to the selected group category are played one after another.

For example, if full repeat play is set during the playback of disc 1, all tracks recorded to discs 1 and 2 are repeatedly played.

Memo

- If "Style All" is set and the title is shown on the display, the sound may be missing when this unit switches from one disc to another. To avoid this problem, switch the display to from the indication of time by pressing TEXT/TIME (P.18).
- Select "Style All" when sequentially playing the sources recorded for long hours extending several discs.

When selecting "Style Group"

The G indicator lights on the display.

Random play, full repeat play, or intro play can be set for one of the groups (disc, album, and bookmark) recorded on the HDD.
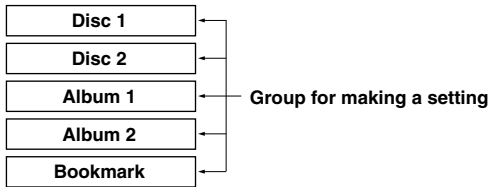
- When random play is set, all tracks that belong to the selected group are played in a random sequence.
- When full repeat play is set, all tracks that belong to the selected group are repeatedly played.
- When intro play is set, the beginnings of all tracks that belong to the selected group are played one after another.

For example, if full repeat play is set during the playback of disc 1, all tracks recorded to disc 1 are repeatedly played.

■ Repeating playback of a track (Single Repeat)

You can listen to a single desired track or to a track being played repeatedly.

1. Press MODE to enter the playback mode setting, then rotate the MULTI JOG knob (press +/–, ▲ or ▼ on the remote control) to display "Repeat".

2. Press the MULTI JOG knob (ENTER on the remote control) to enter repeat play setting.

3. Rotate the MULTI JOG knob (press +/–, ▲ or ▼ on the remote control) to display "Repeat Single".
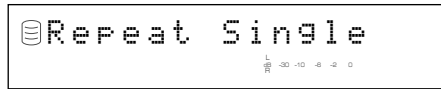
4. Press the MULTI JOG knob (ENTER on the remote control) to confirm the selection.

The S REP indicator lights on the display.

Notes

- Single repeat play can be easily set by pressing REPEAT on the remote control once.
- The track being played is repeatedly played even during playback of an album or random play.

To cancel the Single Repeat setting

Select "Repeat Off" in step 3 or press REPEAT on the remote control until the S REP indicator turns off on the display.

2

BASIC OPERATIONS

English

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■ Repeating playback of the selected group (Full Repeat)

You can repeatedly listen to all tracks recorded in a group (or a CD) or group category.

1. **Press MODE to enter the playback mode setting, then rotate the MULTI JOG knob (press +/–, ▲ or ▼ on the remote control) to display "Repeat".**

```
⊟Repeat
                                    L
                                    R  -30 -10  -6  -2  0
```

2. **Press the MULTI JOG knob (ENTER on the remote control) to enter repeat play setting.**

3. **Rotate the MULTI JOG knob (press +/–, ▲ or ▼ on the remote control) to display "Repeat Full".**

```
⊟Repeat Full
  G                                 L
                                    R  -30 -10  -6  -2  0
```

4. **Press the MULTI JOG knob (ENTER on the remote control) to confirm the selection.**

The REP indicator lights on the display.

```
                    G    REP
```

Notes

- Full repeat play can be easily set by pressing REPEAT on the remote control twice.
- The tracks are repeatedly played in the same random order if played in the random play mode.

To cancel the Full Repeat setting

Select "Repeat Off" in step 3 or press REPEAT on the remote control until the REP indicator turns off on the display.

■ Playing back randomly (Random Play)

You can listen to all tracks recorded in a group on the HDD or on a CD in a random sequence.

1. **Press MODE to enter the playback mode setting, then rotate the MULTI JOG knob (press +/–, ▲ or ▼ on the remote control) to display "Random".**

```
⊟Random
  G                                 L
                                    R  -30 -10  -6  -2  0
```

2. **Press the MULTI JOG knob (ENTER on the remote control) to enter random play setting.**

3. **Rotate the MULTI JOG knob (press +/–, ▲ or ▼ on the remote control) to display "Random On".**

```
⊟Random On
  G    RNDM                         L
                                    R  -30 -10  -6  -2  0
```
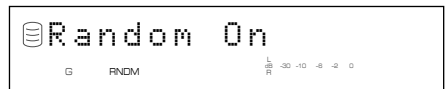
4. **Press the MULTI JOG knob (ENTER on the remote control) to confirm the selection.**

The RNDM indicator lights on the display.

```
                    G    RNDM
```

Notes

- Random play can be easily set by pressing RANDOM on the remote control.
- If random play is set during playback, the new setting applies to the next track.

To cancel the Random Play setting

Select "Random Off" in step 3 or press RANDOM on the remote control until the RNDM indicator turns off on the display.

■ Playing back only the beginning parts of tracks (Intro Play)

You can listen to the beginnings of the tracks for a set amount of time one after another.

1. Press MODE to enter the playback mode setting, then rotate the MULTI JOG knob (press +/–, ▲ or ▼ on the remote control) to display "Intros Scan".

```
⊟Intros  Scan
  G                    L
                       ⑧ -30 -10 -6 -2  0
                       R
```
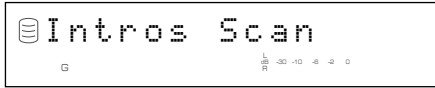
2. Press the MULTI JOG knob (ENTER on the remote control) to enter intro play setting.

3. Rotate the MULTI JOG knob (press +/–, ▲ or ▼ on the remote control) to set the amount of time to play the beginning of each track.

The playback time can be set in the 1 to 10 seconds range by 1 second steps and in the 10 seconds to 60 seconds range by 5 seconds steps.

```
⊟Interval:     5
  G                    L
                       ⑧ -30 -10 -6 -2  0
                       R
```

4. Press the MULTI JOG knob (ENTER on the remote control) or ▷/❙❙ to confirm the selection.

The unit starts intro play.

Memo

Intro play can be easily started by pressing INTRO on the remote control. In this case, the unit automatically applies the playback time setting adjusted last time.

To cancel the Intro Play setting

Press ☐ (INTRO on the remote control).

USING THE BOOKMARK LIST

You can easily listen to a group of desired tracks by selecting a list of tracks with bookmarks.

■ Adding tracks to the bookmark list

Press TRACK NO./BOOKMARK on the remote control during playback of the desired track until the MARK indicator turns off.

```
MARK   G
```

Memo

• When the track with a bookmark is selected, the MARK indicator lights on the display regardless of whether it is during playback or stopped.

• You can create one list of the tracks with bookmarks on each the HDD and a CD.

• The list of the tracks on the HDD with bookmarks will be stored on the HDD. However, only one list of tracks with bookmarks can be stored. If you wish to have more than one list, copy the playlist in the album (P.54).

• The list of the tracks on a CD with bookmarks will be erased if the CD is taken out or the power of this unit is turned off.

• You can create a new album by copying the list of tracks with bookmarks. Select "Mark" as the group to be copied. See "Album Copy" (P.54).

■ Playing back tracks in the bookmark list

1. Press the MULTI JOG knob (ENTER on the remote control) to turn on the GROUP indicator on the display.

2. Rotate the MULTI JOG knob (press +/–, ▲ or ▼ on the remote control) to select "Mark".

When selecting "Mark" on a CD

```
Mark  1          :   ☀

MARK              L           TOC GROUP
                  R -30 -10 -6 -2  0   CD
```
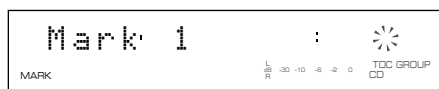
When selecting "Mark" on the HDD

```
⊟Mark  1         :

MARK  G           L                  GROUP
                  R -30 -10 -6 -2  0
```
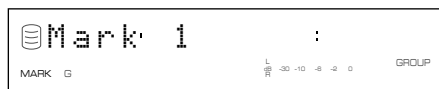
3. Press ▷/▯▯ to start playback.

Tracks are played in the order that bookmarks have been placed.

■ Removing tracks from the bookmark list

Press TRACK NO./BOOKMARK on the remote control during playback of the desired track until the MARK indicator appears.

To clear the bookmark list of the selected drive

Press CLEAR as pressing TRACK NO./BOOKMARK on the front panel while this unit is in the stop mode. The following message appears on the display, and all bookmarks are canceled.

```
⊟Bookmark  Clr

MARK  G               L                GROUP
                      R -30 -10 -6 -2  0
```
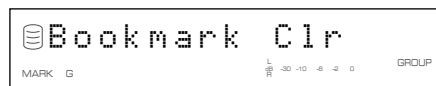
USING ON-SCREEN DISPLAY (OSD)

You can display the list of groups or tracks to be played, copying/recording settings and the list of the setting items on the monitor by connecting the monitor to this unit.

List of groups or tracks

The numbers and titles of groups, or the numbers and titles of tracks are displayed. Press the MULTI JOG knob to switch the list displayed.

```
🖴 Grp      Tr. 1    0:00
Dsc  1: MY DISC 1
Dsc  2: MY DISC 2
Dsc  3: CLASSIC
Alb  1: MY BEST
Alb  2: MY BEST 2
Mark  : [Bookmark]
```

```
🖴 Grp      Tr. 9    0:00
 1- Jazz 1
 2- Jazz 2
 3- Classic 1
 4- Classic 2
 5- Classic 3
 6- Rock 1
 7- Rock 2
 8- Rock 3
 9- Pops 1
10- Pops 2
11- Hip Hop
```
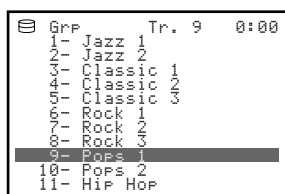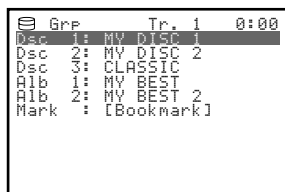
Memo

An asterisk (*) shown on the left of a track name indicates that the track has been added to the bookmark list.

Display during copying

The settings for copying are displayed.

```
       ◎→🖴 Copy
Mode   : All Synchro
Level  :    0.0dB
Method : Digital Copy
Speed  : Best Effort

 D001· 1  ◂ 1  0:00
```
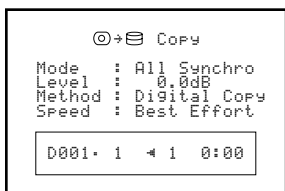
Example: when copying from a CD to the HDD

Display during recording

The setting for recording are displayed.

```
       🖴 Rec
Mode   : Track Synchro
Level  :    0.0dB
Input  : OPTICAL

 D001· 1    0:00
```
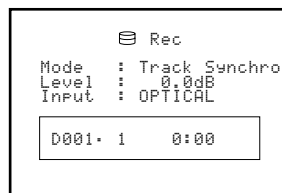
Example: when recording to the HDD

List of setting items

The names of items to be set are displayed.

```
Album Edit
Track Edit
Disc Edit
Undo
HDD Utility
Sys. Utility
Synchro Setup
DAC Mode
```
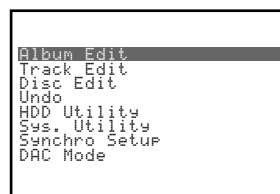
Example: when setting the menu

Display during titling

This is displayed while the title is being assigned to albums (P.55), tracks (P.65), or discs (P.69).

```
      Dsc  3 Tr. 1

 ▣

ABCDEFGHIJKLMNOPQRSTUVWX
YZabcdefghijklmnopqrstuv
wxyz0123456789!"#$%'()*
+,-./:;<=>?@[\]^_`{|}`
```

Example: when titling the track

USING HEADPHONES

- **LEVEL control**
- **PHONES jack**
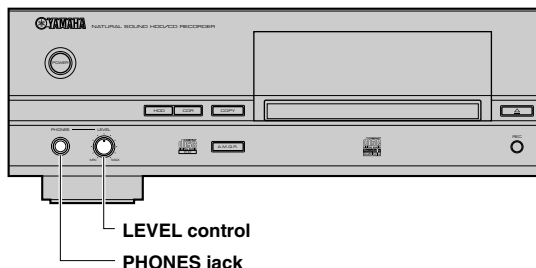
Connect your headphones to the PHONES jack and adjust the volume with the LEVEL control.

Note

If the power of other components such as an amplifier connected to this unit is not turned on, the sound of this unit may be distorted. If this occurs, use the headphones with the other component's power turned on.

■ Copying all tracks on a CD

You can copy all tracks on a CD onto the HDD.

COPY

COPY ►/❙❙
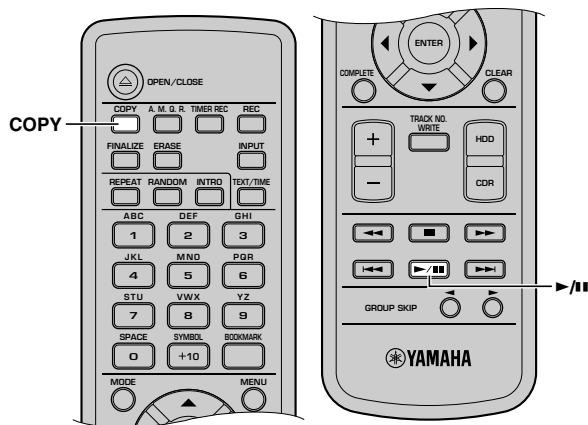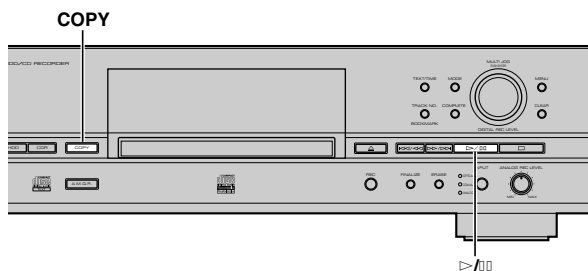
1. Set the CD in the disc tray.

This unit starts reading the information (type and capacity of the CD) when the CD is loaded.

The following message appears during reading (the process may take 10 to 20 seconds depending on the disc condition).

When reading the information has been completed, the display changes as follows, and this unit becomes ready for operation.

Total number of tracks   Total time
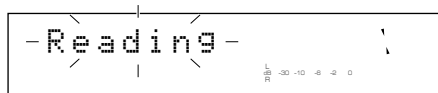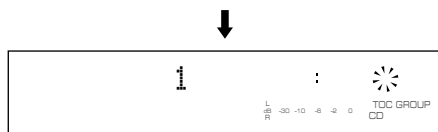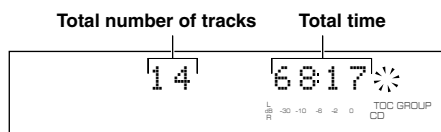
2. Press COPY once.

The following message appears on the display, and this unit enters the HDD copy standby mode. Copying has not been started yet at this stage.

Memo

• In the HDD copy standby mode, you can specify the settings for HDD copy. For details, refer to "Setting the HDD copy mode" (P.28) and "Settings HDD copy menu" (P.29).

• You can specify a disc to where data is copied. For details, refer to "Selecting a target disc" (P.28). (When no disc is specified, the unit automatically selects the smallest disc number that does not contain any data.)
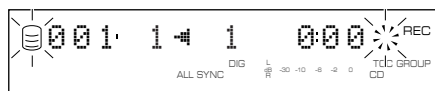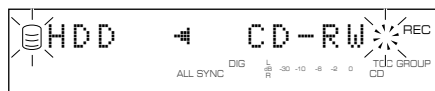
3. Press ►/❙❙ to start copying.

The progress of the copy process is shown in the display.
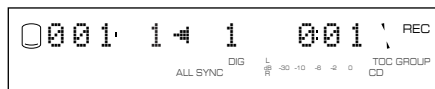
The unit applies the following settings (default) if the HDD copy menu settings (P.29) are never changed.

• Copy Method: "Digital Copy"
• Copy Level: 0dB
• Copy Speed: "Best Effort"

Memo

• It takes a few seconds for this unit to become ready to start copying after ►/❙❙ has been pressed.

• This unit may create some vibration and rotation noise while performing the copying process by rotating a CD at high speed.

To cancel copying, press ☐.

When copying has been completed, the operation of the HDD and the CD automatically stops.

CD TEXT

If the CD to be copied contains CD TEXT that can be copied, CD TEXT is automatically copied when the CD is copied onto the HDD.

Output of the signals during copying

• During copying at 1x speed, signals are output both from the ANALOG LINE OUT (PLAY) jack and from the DIGITAL OUTPUT (OPTICAL/COAXIAL) jacks.

• During copying at 2x speed, signals are output only from the ANALOG LINE OUT (PLAY) jack.

• During copying at other than 1x or 2x speed, signals are output neither from the ANALOG LINE OUT (PLAY) jack nor the DIGITAL OUTPUT (OPTICAL/COAXIAL) jacks.

■ Copying selected tracks on a CD

You can copy your favorite tracks on a CD onto the HDD.
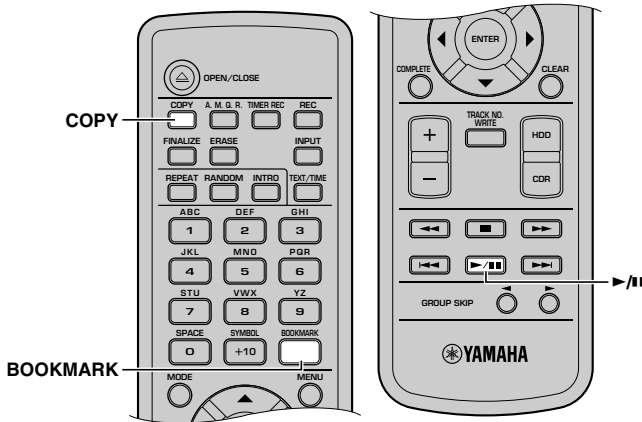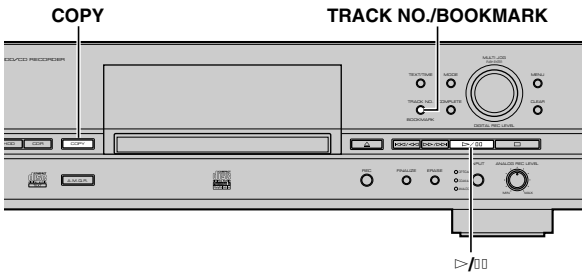
COPY   **TRACK NO./BOOKMARK**

▷/❚❚

COPY

BOOKMARK
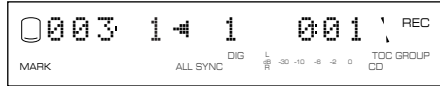
1. **Set the CD in the disc tray, then add bookmarks to favorite tracks (P.24).**

Tracks are listed and stored in order that the bookmarks have been placed.

Memo

The bookmark placed to the track on the CD will be canceled if the disc tray is open, or the power of this unit is turned off.

2. **Press COPY once.**

This unit enters the HDD copy standby mode. Copying has not been started yet at this stage.

Memo

• In the HDD copy standby mode, you can specify the settings for HDD copy. For details, refer to "Setting the HDD copy mode" (P.28) and "Settings HDD copy menu" (P.29).

• You can specify a disc to where data is copied. For details, refer to "Selecting a target disc" (P.28). (When no disc is specified, the unit automatically selects the smallest disc number that does not contain any data.)

3. **Press TRACK NO./BOOKMARK (BOOKMARK on the remote control).**

The list of the track that the bookmark is placed to is selected as the group to be copied (the MARK indicator lights on the display). Press TRACK NO./BOOKMARK (BOOKMARK on the remote control) again to return to the normal copy standby mode.

4. **Press ▷/❚❚ to start copying.**

The progress of the copy process is shown in the display.

```
 ◻003  1◄❘ 1      001 \  REC
MARK              DIG   L
          ALL SYNC    ❘❘ -30 -10 -6 -2 0   TOC GROUP
                                           CD
```

Memo

• It takes a few seconds for this unit to become ready to start copying after ▷/❚❚ has been pressed.

• This unit may create some vibration and rotation noise while performing the copying process by rotating a CD at high speed.

To cancel copying, press ▢.

When copying has been completed, the operation of the HDD and the CD automatically stops.

3

HDD RECORDING

English

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■ Selecting a target disc

MULTI JOG

▲, ▼

+, –

GROUP SKIP buttons

While this unit is in the HDD copy standby mode, rotate the MULTI JOG knob (press +/–, GROUP SKIP buttons, ▲ or ▼) to select the disc number to where the data is copied.
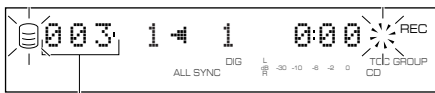
Disc number to make the copy on

Memo

When a disc number with recorded tracks is selected, new recordings will be added to the end of the last track that has been previously recorded.

■ Setting the HDD copy mode

In the HDD copy mode, you can specify the number of tracks to be copied on the HDD.

Initial setting: All Synchro

MODE   **MULTI JOG**

$\vartriangleleft\vartriangleleft/\vartriangleleft\vartriangleleft, \vartriangleright\vartriangleright/\vartriangleright\vartriangleright$

MODE

Cursor buttons, ENTER

+, –

$\vartriangleleft\vartriangleleft, \vartriangleright\vartriangleright$
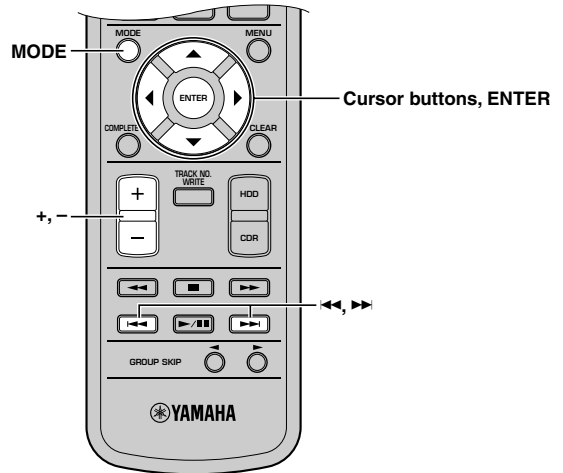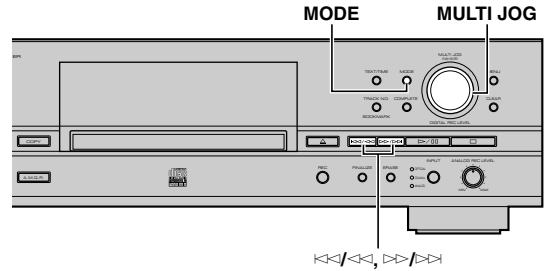
1. **Press MODE while this unit is in the HDD copy standby mode (P.26, 27).**

You can select the copying mode.

2. **Rotate the MULTI JOG knob (press +/–, ▲ or ▼ on the remote control) to select the copying mode.**

Choose one of the modes listed below.

All Synchro (All-synchronized copying mode)

This mode copies all of the material from a single audio source at the same time as the source programs are being played. Track markers are automatically placed between the tracks being recorded.

Multi Synchro (Multi-synchronized copying mode)

This mode copies the set number of tracks at the same time as the source programs are being played. The number of tracks to be recorded can be set in the range of 1 to 99 tracks. This mode is convenient to record a mix of tracks from different sources.

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3. **Press the MULTI JOG knob (ENTER on the remote control) to confirm the copying mode selected.**

If "All Synchro" is confirmed, this unit returns to the HDD copy standby mode.

If "Multi Synchro" is confirmed, the following message appears on the display. Go to step 4.

4. **Rotate the MULTI JOG knob (press +/–, ▲ or ▼ on the remote control) to select the number of tracks.**

The number can be selected in the 1 to 99 tracks range.

5. **Press the MULTI JOG knob (ENTER on the remote control) to confirm the number selected.**

This unit returns to the copy standby mode.

6. **Press** ⊲⊲/⊲⊲ **or** ⊳⊳/⊳⊳ **(**◄◄**,** ►►**,** ◄ **or** ► **on the remote control) to select the track to start copy from.**

■ Setting the HDD copy menu

In the HDD copy menu, you can set the copy method, copy level, and copy speed.
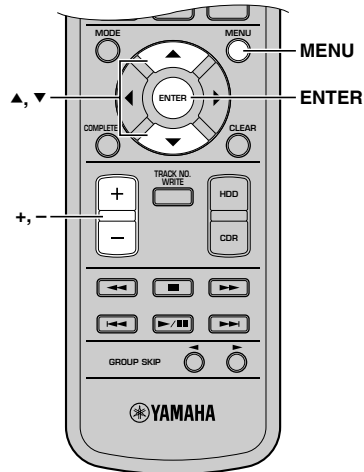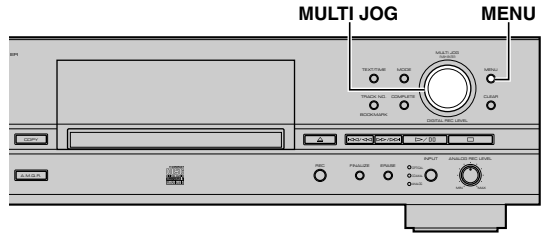
1. **Press MENU while this unit is in the HDD copy standby mode (P.26, 27).**

You can start setting the HDD copying menu.

2. **Rotate the MULTI JOG knob (press +/–, ▲ or ▼ on the remote control) to select a HDD copy menu.**

The copying menu (P.30) contains three items as follows:

- Copy Method
- Copy Level
- Copy Speed

3. **Press the MULTI JOG knob (ENTER on the remote control) to confirm the menu item to be adjusted.**

4. **Rotate the MULTI JOG knob (press +/–, ▲ or ▼ on the remote control) to adjust the parameter.**

5. **Press the MULTI JOG knob (ENTER on the remote control) to confirm the setting when adjustment has been completed.**

6. **Press MENU to close the menu.**

This unit returns to the HDD copy standby mode.

3

HDD RECORDING

English

29

Copy Method

Setting of the copying method. Copying may fail if the setting for "Copy Method" is not correctly made.

```
📀Copy  Method        ☼REC
              DIG   L                    TOC
      ALL SYNC      R  -30 -10 -6 -2  0  CD
```

Initial setting: Digital Copy

Digital Copy

This method always makes digital copies. Copying is not possible if the tracks are copy protected by the SCMS standard (P.82).

Auto Dig/Anlg

Digital and analog copying are automatically switched depending on the track. If digital copying is prohibited by the SCMS standard (P.82), an analog copy is made. For those tracks that can be digitally copied, a digital copy is made.

Analog Copy

This method always makes analog copies.

Memo

• In analog copying, the data may be copied at a lower sound level.

• The setting is stored in the memory and applies to future copying.

Copy Level

Setting of the sound level for copying. Sound level adjustment is not normally necessary. However it is possible to adjust the copying sound level to suit you needs.

```
📀Copy  Level         ☼REC
              DIG   L                    TOC
      ALL SYNC      R  -30 -10 -6 -2  0  CD
```

Adjustment is possible in the –12dB to +12dB range by 0.4dB steps.

```
📀Level    0.0dB☼REC
                                       LEVEL
              DIG   L                    TOC
      ALL SYNC      R  -30 -10 -6 -2  0  CD
```
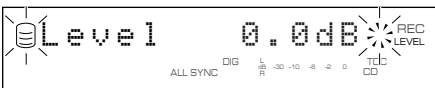
Memo

• Level adjustment is not possible during copying.

• If the red part on the peak level meter lights at the loudest sound levels, stop copying to adjust the copying level, and then resume copying.

• If the level is adjusted, copying is made at maximum 2x speed.

Copy Speed

Setting of the copying speed.

```
📀Copy  Speed         ☼REC
              DIG   L                    TOC
      ALL SYNC      R  -30 -10 -6 -2  0  CD
```

Initial setting: Best Effort

Best Effort

Copying is made at the maximum speed possible depending on the "Copy Method" and "Copy Level" settings.

• When "Digital Copy" is selected:
  Max. 10x speed (2x speed when copy level is adjusted)

• When "Auto Dig/Anlg" is selected: 2x speed

• When "Analog Copy" is selected: 2x speed

2x Copy

Copying is always made at 2x speed.

1x Copy

Copying is always made at 1x speed.

Memo

• If there are scratches or dust on the CD, the copy speed may drop automatically even when "Best Effort" is selected.

• The setting is stored in the memory and applies to future copying.

■ Recording input audio source

You can make recordings from the component such as a cable TV tuner or DVD player connected to this unit.

Note

This unit cannot input digital signals other than PCM signals.

Memo

Recording onto the HDD is made in the unit called "disc". The maximum length of one disc on the HDD is 179 minutes 59 seconds. If the recording has been made exceeding the maximum length, the recording will be made continuously to the next available disc.

3
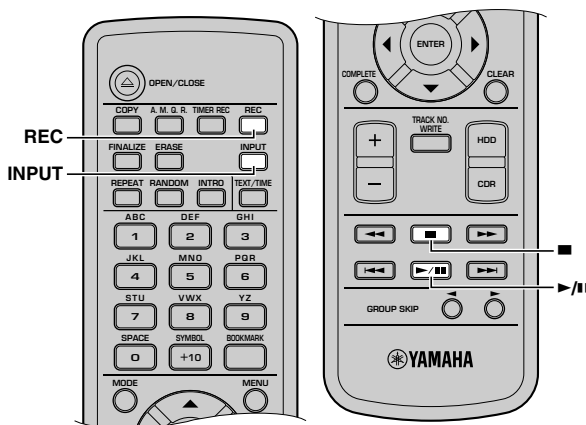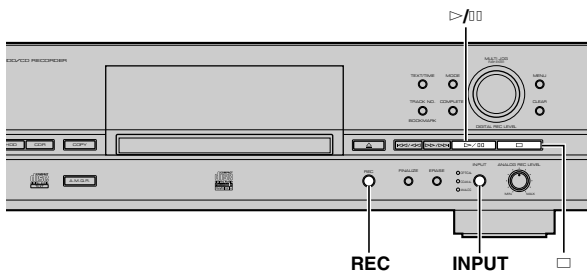
HDD RECORDING

1. Press REC while the HDD is selected (P.14).

The HDD mark flashes, and the disc and track numbers to be recorded are indicated on the display. Recording has not been started yet at this stage. (HDD recording standby mode)

```
▤D002  1        000   REC
        SYNC    L
                R -30 -10 -6 -2 0    GROUP
```
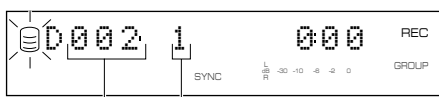
Disc number to be recorded　**Track number to be recorded**

Memo

• In the HDD recording standby mode, you can specify the settings for HDD recording. For details, refer to "Setting the HDD recording mode" (P.35).

• You can specify a disc to where data is copied. For details, refer to "Selecting a target disc" (P.28). (When no disc is specified, the unit automatically selects the smallest disc number that does not contain any data.)

2. Select the input source to be recorded.

The lamp for the selected input (OPTICAL, COAXIAL, or ANALOG) lights.

3. Adjust the recording level.

The adjustment of the digital recording level is not normally necessary. However it is possible to adjust the recording level (P.34) to suit your needs.

4. Press ▷/❙❙ to start recording.

```
▢D002  1        001   REC
        SYNC    L
                R -30 -10 -6 -2 0
```

5. Start playing the source.

Press ▷/❙❙ to stop recording temporarily. The HDD mark flashes and the track number is advanced to the next.
Press ▷/❙❙ to resume recording.

Memo

This unit automatically adds track markers to track data while recording external audio sources. To add track markers manually, refer to "Adding track markers during recording (Manual track marking)" (P.37).

6. Press □ to stop recording.

The first track number of the disc at which recording has been stopped is indicated on the display.

```
▤D002  1          :
 G              L
                R -30 -10 -6 -2 0    GROUP
```
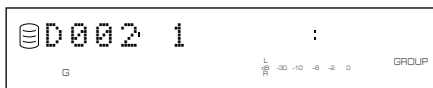
IMPORTANT

• Never turn off the power of this unit during recording. Recording may not be correctly made, or the data on the HDD may be damaged.

• During recording, make sure that this unit is not subjected to shock or vibration as the HDD may be damaged.

English

■ Using an external timer to record

Notes on recording time setting

- This unit is not equipped with the clock function. Use an external timer when making a timer recording.

- It may take 30 seconds to 1 minute after the power of this unit is turned on by an external timer until an actual recording starts. (This length of time is subject to change depending on the condition.) During this time, no recording is made. Therefore set the time that is 2-minute earlier than the starting time of the program to be recorded for turning on this unit.

- As a characteristic of an HDD recorder, it is necessary to store information to control audio data as well as audio data itself. This information is normally recorded when recording is stopped. Therefore if the power of this unit is turned off before recording is stopped, no information to control audio data and no audio data are stored. Set the time that is longer than 3-minute after the program to be recorded finishes for turning off this unit by an external timer.

- Set the time that is 2-minute longer than actual recording time for the total recording time.

Following chart indicates the time flow when this unit makes timer recordings.

Time to be set on the external timer

(2 minutes + recording time + 3 minutes or longer)

Recording time to be set on the CDR-HD1500

(Recording time + 2 minutes)

Recording time

External timer turns on **Program starting time** **Program ending time** **External timer turns off**

CDR-HD1500 starts recording
(30 seconds to 1 minute after the
external timer turns on.)

CDR-HD1500 finishes
recording

Time flow

Example: To record the program that starts at 9:00 and ends at 10:00.

- Set the external timer to be turned on at 8:58.
- Set the external timer to be turned off after 10:03.
- Set 1 hour 2 minutes for the total recording time on this unit.

Memo

- Actual recorded material includes a little more than the set amount of time at both beginning and end of the recording. Delete unnecessary parts using the editing operation.

- Recording will be stopped if copy protected digital signals are input while timer recording is being made.

- If you set the total recording time over 179 minutes 59 seconds, recording will be made extending several discs. To play the recorded materials sequentially, select "Style All" as the play style (P.20).

Setting for a timer recording

Memo

• You cannot set a timer recording for CD-R and CD-RW copying.

• You can skip to step 3 in the following procedure by pressing TIMER REC on the remote control.

MULTI JOG

REC

Cursor buttons, ENTER

+, –

REC   ⫷/⫷⫷, ⫸⫸/⫸⫸▷

◀◀, ▶▶
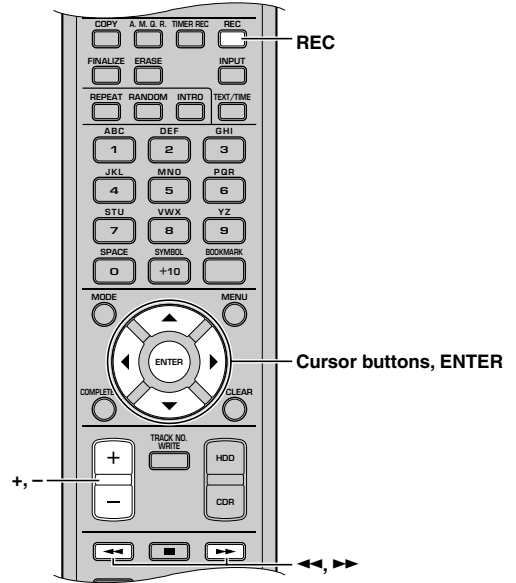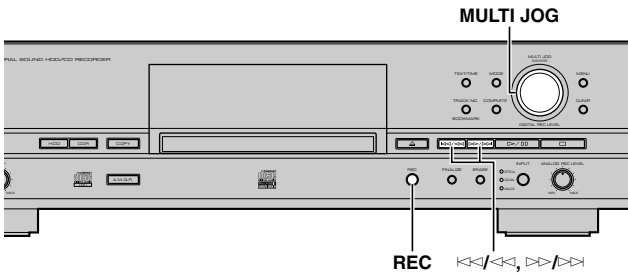
1. **Carry out steps 1 and 2 in "Recording input audio source" (P.31).**

For the HDD recording mode (P.35), select one of "Manual" (manual recording), "Track Synchro" (track-synchronized recording) or "Auto Period" (auto-period recording). Other modes cannot be selected when timer recording is made.

2. **Press and hold REC for approximately three seconds (press TIMER REC on the remote control).**

The following screen appears in the display.

```
┌─────────────────────────────┐
│ ⊟T.Span    1h  2m      REC   │
│          SYNC  ┴ -30 -10 -6 -2 0   TIME │
│                L=dB             │
│                R                │
└─────────────────────────────┘
```

3. **Press ⫷/⫷⫷ or ⫸⫸/⫸⫸▷ (press ◀◀, ▶▶, ◀ or ▶ on the remote control) to switch between hour and minute, then rotate the MULTI JOG knob (press +/–, ▲ or ▼ on the remote control) to adjust the total recording time.**

4. **Press the MULTI JOG knob (ENTER on the remote control) to confirm the total time of timer recording.**

"Timer Standby" appears on the display.

```
┌─────────────────────────────┐
│ ⊟Timer  Standby             │
│   G              ┴ -30 -10 -6 -2 0 │
│                  L=dB           │
│                  R              │
└─────────────────────────────┘
```
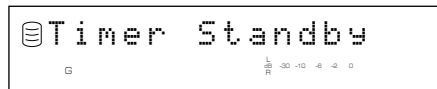
To cancel timer recording setting, press □.

5. **Leave the power of this unit on. Turn off the power of this unit by the external timer.**

If the power of this unit is turned on by the external timer, "Timer Standby" flashes for approximately five seconds. Then recording starts according to the setting.

Memo

Once timer recording is set, recording starts every time the power of this unit is turned on. To cancel the setting, press □ while "Timer Standby" is flashing, or while recording is being made.

■ Adjusting the recording level

There is an adjusting procedure for each input source to be recorded as explained below. Choose the one for your input source and follow the steps.

MULTI JOG　**MENU**

ANALOG REC LEVEL

MENU

▲, ▼　**ENTER**

+, −
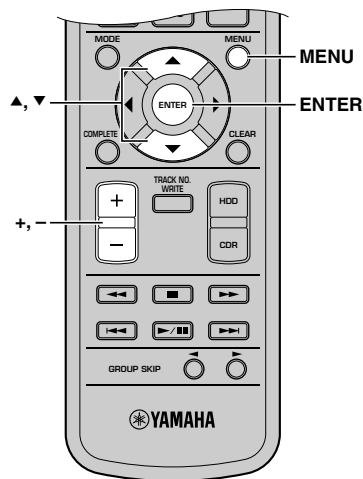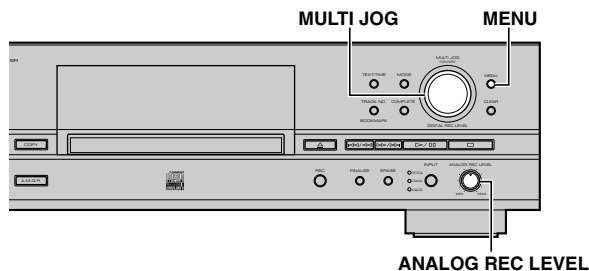
When recording a digital input source (OPTICAL, COAXIAL)

The digital recording level is set to 0dB, the level of the input source, as an initial setting. Further adjustment is not normally necessary. However it is possible to adjust the recording level to suit your needs.

1. **Press MENU while this unit is in the HDD recording standby mode (P.31).**

The following screen appears on the display.

```
 Level     0.0dB   REC
                    LEVEL
          SYNC   L
                 R  -30 -10 -6 -2  0
                 dB
```

2. **Play the loudest passage (highest sound level) of the source to be recorded.**

3. **Rotate the MULTI JOG knob (press +/−, ▲ or ▼ on the remote control) to adjust the recording level.**
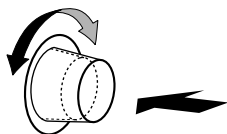
Adjustment is possible in the −12dB to +12dB range by 0.4dB steps.

Adjust the recording level so that the red part on the peak level meter does not light at the loudest sound levels.

4. **Press the MULTI JOG knob (ENTER on the remote control) to return to the previous display.**

Memo

• The recording level can be adjusted while this unit is in either the recording or recording standby mode. Once recording has been stopped, the recording level is reset to 0dB.

• Adjustment of the recording level can be canceled by pressing MENU when the level is adjusted in the recording standby mode.

• The recording level is set to 0dB by pressing CLEAR when the level is adjusted in the recording standby mode.

When recording an analog input source (ANALOG)

1. **Play the loudest passage (highest sound level) of the source to be recorded.**

2. **Adjust the recording level by rotating the ANALOG REC LEVEL control.**

Rotate the control clockwise to increase the level and counterclockwise to decrease the level.

Adjust the recording level so that the red part on the peak level meter does not light at the loudest sound levels.

Memo

The recording level can be adjusted while this unit is in either the recording or recording standby mode.

34

■ Setting the HDD recording mode

This unit provides various recording modes. Choose the mode that suits your needs.

Initial setting: Track Synchro

MODE   MULTI JOG

⊲⊲/⊲⊲, ▷▷/▷▷

MODE

Cursor buttons, ENTER

+, −

◀◀, ▶▶
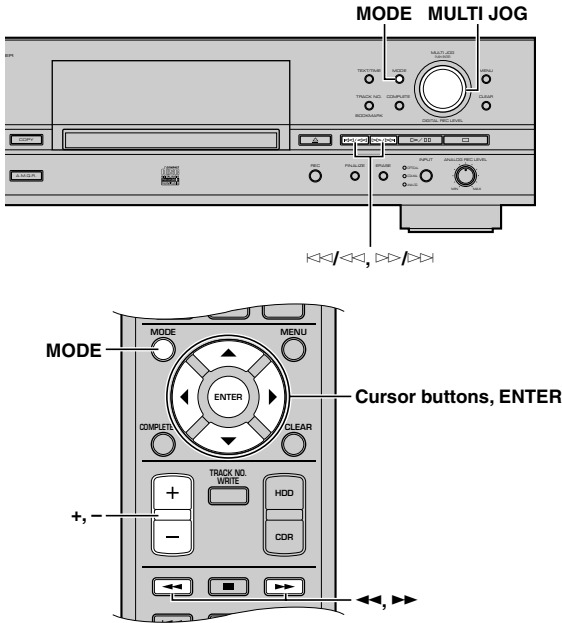
1. **Press MODE while this unit is in the HDD recording standby mode (P.31).**

The recording mode can be selected.

2. **Rotate the MULTI JOG knob (press +/−, ▲ or ▼ on the remote control) to select the HDD recording mode.**

Choose one of the modes listed below.

Manual (Manual recording mode)

All the recording operations including starting, stopping and track marking are performed manually.

Track Synchro (Track-synchronized recording mode)

Starting and stopping are performed manually. Track markers are automatically placed between the tracks being recorded.

Multi Synchro (Multi-synchronized recording mode)

This mode records the set number of tracks at the same time as the source programs are being played. The number of tracks to be recorded can be set in the range of 1 to 99 tracks. This mode is convenient to record a mix of tracks from different sources.

All Synchro (All-synchronized recording mode)

This mode records all of the material from a single audio source at the same time as the source programs are being played. Track markers are automatically placed between the tracks being recorded.

Auto Period (Auto-period recording mode)

This mode makes recording for the set amount of time while placing track markers at the set time interval. The length between track markers can be adjusted in the 10 seconds to 30 minutes range by 10-second steps. This mode is convenient to search for material recorded from FM broadcasts.

3. **Press the MULTI JOG knob (ENTER on the remote control) to confirm the recording mode selected.**

If "Manual", "Track Synchro" or "All Synchro" is confirmed, this unit returns the HDD recording standby mode.

If "Multi Synchro" is confirmed, following message appears on the display. Follow the "When Multi Synchro is selected" procedure below.

If "Auto Period" is confirmed, following message appears on the display. Follow the "When Auto Period is selected" procedure below.

(When Multi Synchro is selected)

4. **Rotate the MULTI JOG knob (press +/−, ▲ or ▼ on the remote control) to specify the number of tracks.**

The number can be set in the 1 to 99 tracks range.

5. **Press the MULTI JOG knob (ENTER on the remote control) to confirm the number of tracks to be set.**

This unit returns to the HDD recording standby mode.

(When Auto Period is selected)

4. **Press ⊲⊲/⊲⊲ or ▷▷/▷▷ (press ◀◀, ▶▶, ◀ or ▶ on the remote control) to switch between hour and minute, then rotate the MULTI JOG knob (press +/−, ▲ or ▼ on the remote control) to adjust the time length between track markers.**

The time length can be set in the 10 seconds to 30 minutes range by 10-seconds steps.

5. **Press the MULTI JOG knob (ENTER on the remote control) to confirm the setting.**

The following screen appears on the display.
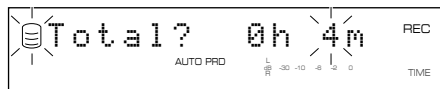
6. **Press ⊲⊲/⊲⊲ or ▷▷/▷▷ (press ◀◀, ▶▶, ◀ or ▶ on the remote control) to switch between hour and minute, then rotate the MULTI JOG knob (press +/−, ▲ or ▼ on the remote control) to adjust the total recording time.**

7. **Press the MULTI JOG knob (ENTER on the remote control) to confirm the total recording time.**

This unit returns to the HDD recording standby mode.

Memo

- When recording to the HDD in the auto period recording mode, the recording will be performed continuously to the next available disc if the time length between selected track markers exceeds the group remaining time.

- In the auto period recording mode, a time error can occur in a frame unit. Therefore, the time of each track or the group total time may not match the confirmed time length between selected track markers or the total recording time.

3

HDD RECORDING

English

35

Setting a condition for synchronized recording

This unit automatically detects track intervals when recording is made in track-synchronized recording mode, multi-synchronized recording mode, or all-synchronized recording mode. You can set the condition for detecting track intervals. Setting items are as follows.

MULTI JOG   MENU
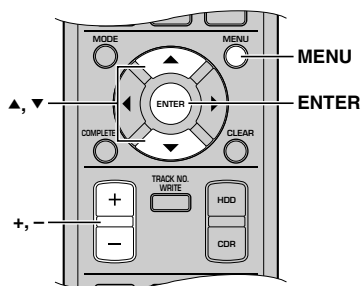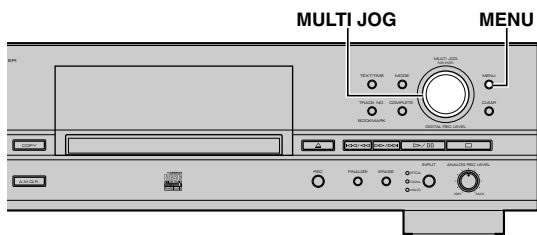
MENU
▲, ▼   ENTER
+, –

1. **Press MENU while this unit is in the stop mode.**

   Menu item selection appears on the display.

2. **Rotate the MULTI JOG knob (press +/–, ▲ or ▼ on the remote control) to select "Synchro Setup".**

   ⊟Synchro Setup

3. **Press the MULTI JOG knob (ENTER on the remote control).**

   Setting item selection appears on the display.

4. **Rotate the MULTI JOG knob (press +/–, ▲ or ▼ on the remote control) to select a setting item.**

   OPT TH Level

   Sets the signal level that judges the signals input through the DIGITAL IN (OPTICAL) jack as "no signal".

   Initial setting: –50dB, Control range: –90 to –20dB

   COAX TH Level

   Sets the signal level that judges the signals input through the DIGITAL IN (COAXIAL) jack as "no signal".

   Initial setting: –50dB, Control range: –90 to –20dB

   ANLG TH Level

   Sets the signal level that judges the signals input through the ANALOG LINE IN (REC) jacks as "no signal".

   Initial setting: –40dB, Control range: –60 to –20dB

Int. Time

Sets the length of silence ("no signal") that judges track intervals. When the set amount of silence continues, this unit judges it as a track interval and places a track marker.

Initial setting: 2.0 seconds, Control range: 0.5 to 5.0 seconds

End Duration

Sets the length of silence ("no signal") that judges the end of playback when recording in the all-synchronized recording mode. When the set amount of silence continues, recording will be stopped.

Initial setting: 12.0 seconds, Control range: 2.0 to 60.0 seconds

Memo

Settings for "Int. Time" and "End Duration" apply to each input jack.

5. **Press the MULTI JOG knob (ENTER on the remote control) to confirm the setting item.**

   If "OPT TH Level", "COAX TH Level" or "ANLG TH Level" is confirmed, follow the "When OPT TH Level, COAX TH Level, or ANLG TH Level is selected" procedure below.

   If "Int. Time" or "End Duration" is confirmed, follow the "When Int. Time or End Duration is selected" procedure below.

(When OPT TH Level, COAX TH Level, or ANLG TH Level is selected)

6. **Rotate the MULTI JOG knob (press +/–, ▲ or ▼ on the remote control) to adjust the level.**

   Level can be set by 1dB step.

   Example: To set "ANLG TH Level"

   ⊟ANLG TH –40dB   LEVEL
   L R dB -30 -10 -6 -2 0
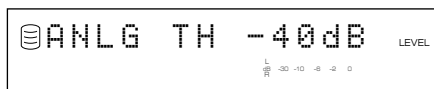
7. **Press the MULTI JOG knob (ENTER on the remote control) to confirm the level.**

   Setting item selection appears on the display.

(When Int. Time or End Duration is selected)

6. **Rotate the MULTI JOG knob (+/–, ▲ or ▼ on the remote control) to set an interval.**

   "Int. Time" can be set by 0.5-second steps, and "End Duration" can be set by 1.0-second steps.

   Example: To set "Int.Time"

   ⊟Time   2.0sec
   L R dB -30 -10 -6 -2 0   TIME
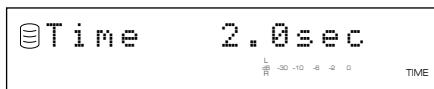
7. **Press the MULTI JOG knob (ENTER on the remote control) to set an interval.**

   Setting item selection appears on the display.

Press MENU twice to close the menu and return to the normal stop mode.

■ Adding track markers during recording (Manual track marking)

TRACK NO./BOOKMARK
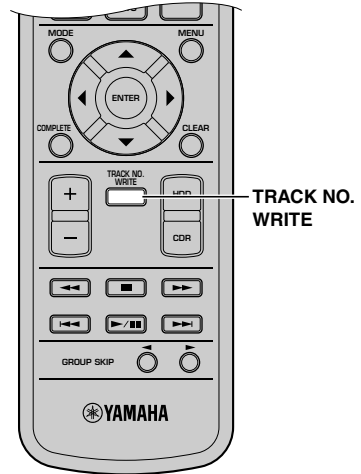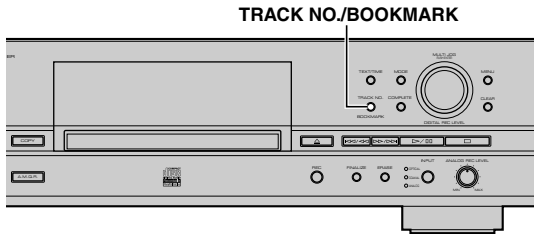
TRACK NO. WRITE

This unit can automatically place track markers. However you can also manually place track markers during recording. (Manual track marking)

Press TRACK NO./BOOKMARK (TRACK NO. WRITE on the remote control) during your recording.

• A new track number is added at the location on the disc corresponding to the time TRACK NO./BOOKMARK (TRACK NO. WRITE on the remote control) is pressed.

• Manual track marking is possible after the recording has been performed for 5 seconds from the beginning of the track, and a disc cannot contain more than 99 tracks. Even if there is time remaining on the disc, further recording is impossible once 99 track markers have been placed.

Memo

• The track markers may not be placed properly even if the recording has been performed in the synchronized recording according to the type of the source devices. To avoid this problem, place the track markers manually.

• Manual track marking is possible even during synchronized recording.

• You can place the track markers to the tracks that have been recorded on the HDD by dividing the track. For details, refer to "Track Divide" (P.62).

3

HDD RECORDING

English

■ Copying all tracks in a group to a disc

You can copy all tracks in a whole group of discs, albums or bookmark list.
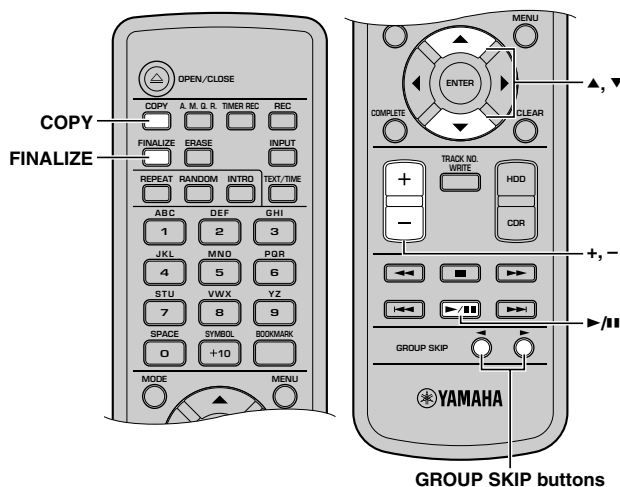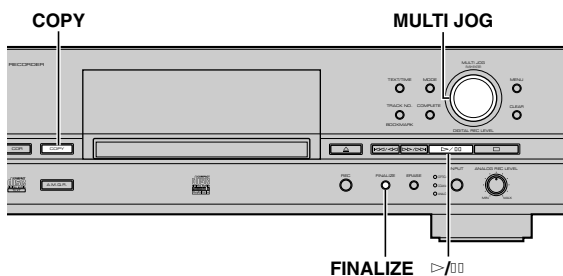
COPY **MULTI JOG**

COPY

FINALIZE

FINALIZE ▷/▯▯

▲, ▼

+, −

▶/▯▯

GROUP SKIP buttons

1. Set a new or not finalized CD-R (or CD-RW) disc in the disc tray.

This unit starts reading the information (type and capacity of a CD-R or a CD-RW disc) when a CD-R or a CD-RW disc is loaded.

The following message appears during reading (the process may take 10 to 20 seconds depending on the disc condition).

```
-Reading-            ＼
     L
     dB -30 -10 -6 -2  0
     R
```
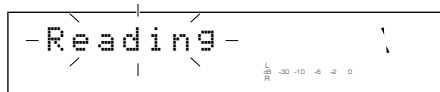
When reading the information has been completed, the display changes as follows, and this unit becomes ready for operation.

When copying onto a CD-R or CD-RW disc without finalization

The number of recorded tracks   **Total recorded time**

```
   14       6817 ☼
     L                    GROUP
     dB -30 -10 -6 -2  0   CDR
     R
```

⬇

```
    1        :      ☼
     L                    GROUP
     dB -30 -10 -6 -2  0   CDR
     R
```
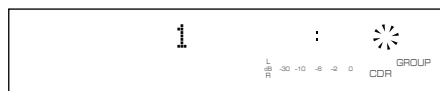
When copying onto a new CD-R or CD-RW disc

```
New  Disc        ☼
     L                    GROUP
     dB -30 -10 -6 -2  0   CDR
     R
```

⬇

```
    0        :      ☼
     L                    GROUP
     dB -30 -10 -6 -2  0   CDR
     R
```

2. Press COPY twice.

The following message appears on the display, and this unit enters in the CDR copy standby mode. Copying has not been started yet at this stage.

Memo

In the CDR copy standby mode, you can specify the settings for disc copy. For details, refer to "Setting the CDR copy mode" (P.42) and "Setting the CDR copy menu" (P.43).

```
🗄HDD   ▶   CD-RW☼ REC
   ALL SYNC ANLG L -30 -10 -6 -2  0  GROUP
              dB                   CDR
              R
```

⬇

```
🗄003  1▶  1    000☼ REC
   ALL SYNC ANLG L -30 -10 -6 -2  0  GROUP
              dB                   CDR
              R
```
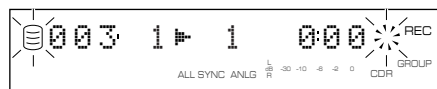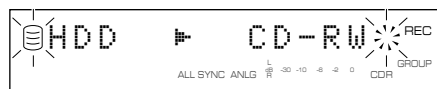
3. Rotate the MULTI JOG knob (press +/–, GROUP SKIP buttons, ▲ or ▼ on the remote control) to select a group to be copied onto the disc.

The following screen appears on the display depending on the type of group you selected.

Memo

You can create a CD with high quality sounds using the Audio Master Quality Recording feature. For details, refer to "Copying high quality sounds (Audio Master Quality Recording)" (P.41).

When a disc is selected:

```
目003 1▶ 1    0:00   REC
         ALL SYNC ANLG L/R -30 -10 -6 -2 0  CDR  GROUP
```
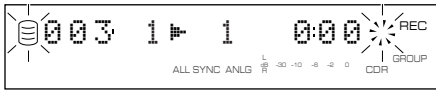
When an album is selected:
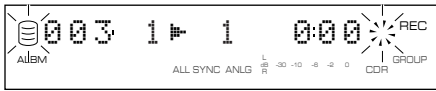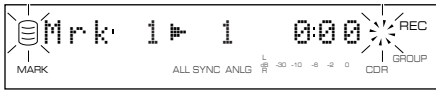
```
目003 1▶ 1    0:00   REC
ALBUM    ALL SYNC ANLG L/R -30 -10 -6 -2 0  CDR  GROUP
```

When a bookmark is selected:

```
目Mrk 1▶ 1    0:00   REC
MARK     ALL SYNC ANLG L/R -30 -10 -6 -2 0  CDR  GROUP
```

4. **Press ▷/▯▯ to start copying.**

The progress of the copy process is shown in the display.

```
□003 1▶ 1    0:01   REC
         ALL SYNC ANLG L/R -30 -10 -6 -2 0  CDR  GROUP
```

The unit applies the following settings (default) if the CDR copy menu settings (P.43) are never changed.

• Copy Method: "Digital Copy"
• Copy Level: 0dB
• Copy Speed: "Best Effort"

Memo

• The OPC (Optimum Power Control) feature may start automatically depending on disc conditions. In this case, the message "OPC Adjust" appears on the display until the adjustment is done (about 10 seconds) before the copy process starts.
• The progress of elapsed time for the track being copied may vary by the data processing inside this unit.

To cancel copying, press □.

Notes

• If copying is canceled by pressing □, only the data that has been recorded on the CD-R or CD-RW disc before the cancellation remains on the disc. When "Digital Move" (P.43) is selected, the original data on the HDD that have already been copied to a CD-R or CD-RW disc will be deleted.
• CD TEXT is copied only when selecting "Full Auto" in the CDR copy mode for a new CD-R or CD-RW disc.

```
□Recording    1%  REC
MARK     AUTO SYNC ANLG L/R -30 -10 -6 -2 0  CDR  GROUP
```

• When the Audio Master Quality Recording is set or the message "Recording" appears on the display, you cannot cancel the copy process by pressing □.

When copying has been completed, the operation of the HDD and the CD automatically stops.

5. **To carry out the finalization process (P.47), press FINALIZE.**

4

CD-R/CD-RW COPYING

■ Copying selected tracks on the HDD

You can copy favorite tracks on the HDD to a CD-R or CD-RW disc.

COPY   **MULTI JOG**

FINALIZE   ▷/❙❙

COPY

FINALIZE

▲, ▼

+, −

▷/❙❙

GROUP SKIP buttons
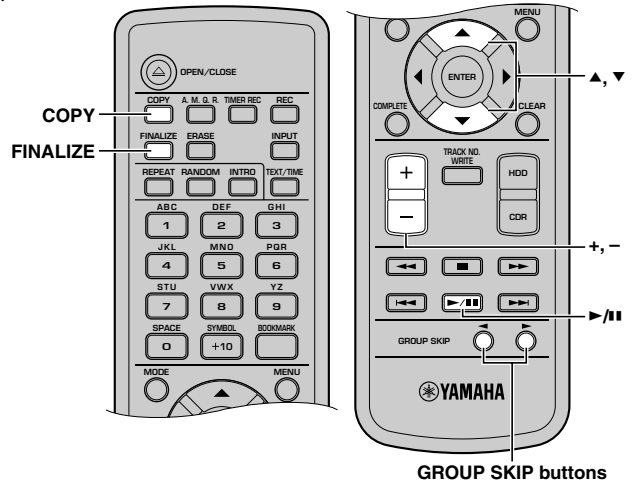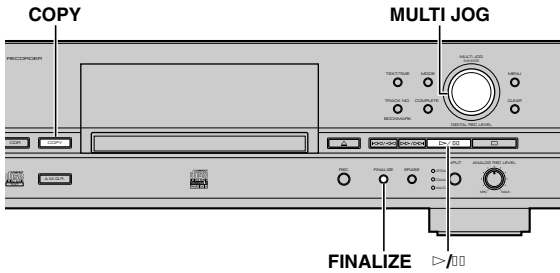
1. **Set a new or not finalized CD-R (or CD-RW) disc in the disc tray, then select the HDD and add bookmarks to favorite tracks (P.24).**

Tracks are listed and stored in order that the bookmarks have been placed.

2. **Press COPY twice.**

This unit enters the CDR copy standby mode. Copying has not been started yet at this stage.

Memo

In the CDR copy standby mode, you can specify the settings for disc copy. For details, refer to "Setting the CDR copy mode" (P.42) and "Setting the CDR copy menu" (P.43).

3. **Rotate the MULTI JOG knob (press +/−, GROUP SKIP buttons, ▲ or ▼ on the remote control) to select "Mrk".**

Memo

You can create a CD with high quality sounds using the Audio Master Quality Recording feature. For details, refer to "Copying high quality sounds (Audio Master Quality Recording)" (P.41).

```
Mrk 1▶ 1      000      REC
MARK          ALL SYNC ANLG L/R -30 -10 -6 -2 0 CDR    GROUP
```

4. **Press ▷/❙❙ to start copying**

The progress of the copy process is shown in the display.

```
Mrk 1▶ 1      001      REC
MARK          ALL SYNC ANLG L/R -30 -10 -6 -2 0 CDR    GROUP
```
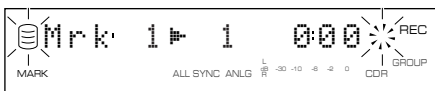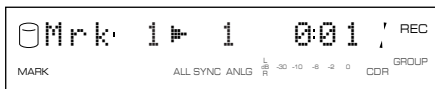
Memo

The OPC (Optimum Power Control) feature may start automatically depending on disc conditions. In this case, the message "OPC Adjust" appears on the display until the adjustment is done (about 10 seconds) before the copy process starts.

Note

CD TEXT is copied only when selecting "Full Auto" in the CDR copy mode for a new CD-R or CD-RW disc.

```
Recording   1%    REC
MARK      AUTO SYNC ANLG L/R -30 -10 -6 -2 0 CDR    GROUP
```

When copying has been completed, the operation of the HDD and the CD automatically stops.

5. **To carry out the finalization process (P.47), press FINALIZE.**

■ Copying high quality sounds (Audio Master Quality Recording)

You can make your own CD with high quality sound with the Audio Master Quality Recording feature.

Notes

• Audio Master Quality Recording can be used only for copying from the HDD on a new CD-R disc.

• Recordable time is 63 minutes for a 74-minute CD-R disc, and 68 minutes for a 79-minute CD-R disc.

• Since "Digital Move" is automatically selected for "Copy Method" (P.43), the group or track data copied to a CD-R disc will be erased after copying.
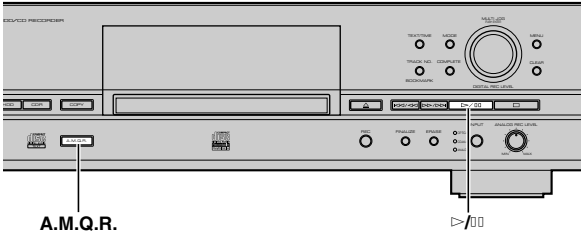
A.M.Q.R.
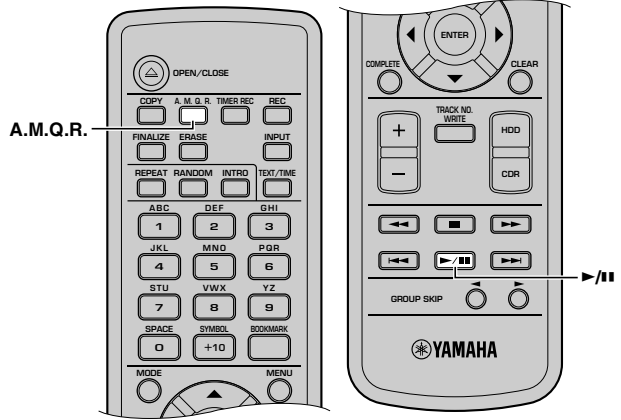
A.M.Q.R.   ▷/❙❙

1. **Press A.M.Q.R. while the unit is in the CDR copy standby mode (P.40, 42).**

The A.M.Q.R. indicator lights up on the display.

A.M.Q.R.

2. **Press ▷/❙❙ to start copying.**

AMQR   1%   REC
A.M.Q.R. AUTO   DIGM   L/R   -30 -10 -8 -2 0   GROUP
SYNC   CDR

The copying conditions are as follows:

• Copy Method: "Digital Move"
• Copy Level: 0dB
• Copy Speed: Best Effort

Notes

• Once copying starts, no button operation is effective until copying is completed.

• Never turn off the power of this unit or unplug the AC power cord during copying.

When copying has been completed, the operation of the HDD and the CD automatically stops.

Notes

• When total time of the group to be copied exceeds recordable time on a CD-R disc (63 minutes for a 74-minute CD-R disc and 68 minutes for an 79-minute CD-R disc), the following message appears on the display. In this case, Audio Master Quality Recording cannot be used.

No Enough Spc REC
A.M.Q.R. AUTO   DIGM   L/R   -30 -10 -8 -2 0   GROUP
SYNC   CDR

• If you select the album with its tracks' level adjusted as the group to be copied, the following message appears on the display. In this case, Audio Master Quality Recording cannot be used.

Can't Tr.Lev. REC
A.M.Q.R. AUTO   DIGM   L/R   -30 -8 -2 0   GROUP
SYNC   CDR

• When a CD-R disc other than a 74-minute, 79-minute or 4x writing compatible CD-R disc is loaded, or a CD-RW disc is loaded on this unit, the following message appears on the display. In this case, Audio Master Quality Recording cannot be used.

Unavailable REC
A.M.Q.R. AUTO   DIGM   L/R   -30 -10 -8 -2 0   GROUP
SYNC   CDR

4

CD-R/CD-RW COPYING

English

41

■ Setting the CDR copy mode

In the CDR copy mode, you can specify the number of tracks to be copied on the HDD or enable/disable the auto-finalization feature.

Initial setting: All Synchro
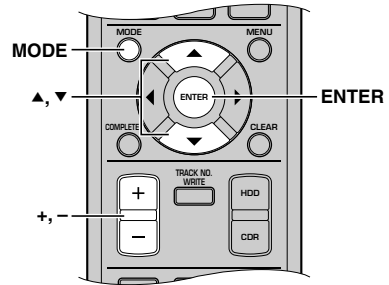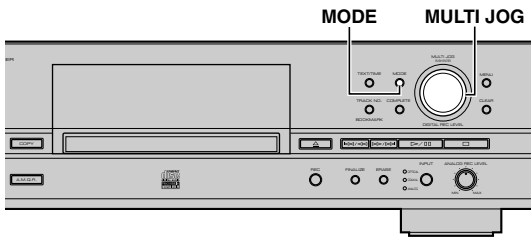
1. **Press MODE while this unit is in the CDR copy standby mode (P.30, 40).**

2. **Rotate the MULTI JOG knob (press +/–, ▲ or ▼ on the remote control) to select the CDR copy mode.**

Choose one of the modes listed below.

All Synchro (All-synchronized copying mode)

This mode copies all of the material from a single audio source at the same time as the source programs are being played. Track markers are automatically placed between the tracks being recorded.

Full Auto (Full auto-synchronized copying mode)

This mode automatically performs finalization after all synchronized copying is complete. A CD-R disc can be played as a CD as soon as finalization has been completed.

Note

CD TEXT is copied only when selecting "Full Auto" in the CDR copy mode for a new CD-R or CD-RW disc.

Multi Synchro (Multi-synchronized copying mode)

This mode copies the set number of tracks at the same time as the source programs are being played. The number of tracks to be recorded can be set in the range of 1 to 99 tracks. This mode is convenient to record a mix of tracks from different sources.

3. **Press the MULTI JOG knob (ENTER on the remote control) to confirm the CDR copy mode selected.**

If "All Synchro" or "Full Auto" is confirmed, this unit returns to the CDR copy standby mode.

If "Multi Synchro" is confirmed, the following message appears on the display. Go to step 4.

4. **Rotate the MULTI JOG knob (press +/–, ▲ or ▼ on the remote control) to select the number of tracks.**

The number can be selected in the 1 to 99 tracks range.

5. **Press the MULTI JOG knob (ENTER on the remote control) to confirm the number selected.**

This unit returns to the CDR copy standby mode.

6. **Rotate the MULTI JOG knob (press +/–, ▲ or ▼ on the remote control) to select the group and track to start copy from.**

While the GROUP indicator lights, you can select a group, and while the TRACK indicator lights, you can select a track. For details, refer to "SELECTING THE GROUP OR TRACK MODE" (P.15).

42

■ Setting the CDR copy menu

In the CDR copy menu, you can set the copy method, copy level, copy speed, and imaging speed.

MULTI JOG   **MENU**

MENU

▲, ▼

ENTER

+, –
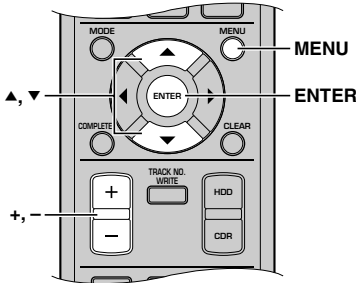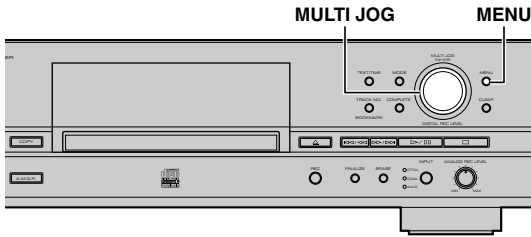
1. **Press MENU while this unit is in the CDR copy standby mode (P.38, 40).**

2. **In the HDD copy menu, you can set the copy method, copy level, copy speed, and imaging speed.**

The copying menu (P.43-44) contains four items as follows:
- Copy Method
- Copy Level
- Copy Speed
- Imaging Speed

3. **Press the MULTI JOG knob (ENTER on the remote control) to confirm the menu item to be adjusted.**

4. **Rotate the MULTI JOG knob (press +/–, ▲ or ▼ on the remote control) to adjust the parameter for each item.**

5. **Press the MULTI JOG knob (ENTER on the remote control) to confirm the setting when adjustment has been completed.**

6. **Press MENU to close the menu.**

This unit returns to the CDR copy standby mode.

Copy Method

Setting of the copying method. Copying may fail if the setting for "Copy Method" is not correctly made.

```
⊟Copy Method        ☼REC
ALL SYNC ANLG  L  -30  -10  -6  -2  0   CDR
              R
```

Initial setting: Analog Copy

Analog Copy

This method always makes analog copies.

Digital Move

The data is moved from the HDD to the CD. Therefore, the track or group data will be deleted from the HDD after they have been moved to the CD-R or CD-RW disc by this method.

Digital Copy

This method always makes digital copies. Copying is not possible if the tracks are copy protected by the SCMS standard (P.82).

Auto Dig/Anlg

Digital and analog copying are automatically switched depending on the track. If digital copying is prohibited by the SCMS standard (P.82), an analog copy is made. For those tracks that can be digitally copied, a digital copy is made.

Memo

- In analog copying, the data may be copied at a lower sound level.
- The settings is stored in the memory and applied to future copying.
- When copy level is adjusted or when carrying out Analog Copy, the unit automatically creates an image file on the HDD before starting the disc copy process.

4

CD-R/CD-RW COPYING

English

43

Copy Level

Setting of the sound level for copying. Sound level adjustment is not normally necessary. However it is possible to adjust the copying sound level to suit you needs.

```
⊟Copy Level          ☼REC
  ALL SYNC ANLG  L̴R̴  -30 -10 -6 -2  0   CDR
```

Adjustment is possible in the –12dB to +12dB range by 0.4dB steps.

```
⊟Level    0.0dB☼REC
                      LEVEL
  ALL SYNC ANLG  L̴R̴  -30 -10 -6 -2  0   CDR
```

Memo

• Level adjustment is not possible during copying.

• If the red part on the peak level meter lights at the loudest sound levels, stop copying to adjust the copying level, and then resume copying.

• When copy level is adjusted, the unit automatically creates an image file on the HDD with 1x or 2x speed before starting the disc copy process.

Copy Speed

Setting of the copying speed.

```
⊟Copy Speed          ☼REC
  ALL SYNC ANLG  L̴R̴  -30 -10 -6 -2  0   CDR
```

Initial setting: Best Effort

Best Effort

Copying is made at Max. 8x speed for a CD-R disc and 4x speed for a CD-RW disc.

4x Copy

Copying is always made at 4x speed.

Memo

• Depending on the condition of the CD-R disc, the copy speed may drop automatically even when "Best Effort" is selected.

• When "Analog Copy" or "Auto Dig/Anlg" is selected in "Copy Method" (P.43), the unit automatically creates an image file on the HDD with 1x or 2x speed before starting the disc copy process.

• The settings is stored in the memory and applied to future copying.

Imaging Speed

Setting of the imaging speed applied for an analog copy.

```
⊟Imaging Speed☼REC
  ALL SYNC ANLG  L̴R̴  -30 -10 -6 -2  0   CDR
```

Initial setting: 2x

2x

An image file is made at 2x speed.

1x

An image file is made at 1x speed.

DUPLICATING A CD

This unit equips the Duplicate feature that enables to create a copy CD easily and quickly.

Duplication may not correctly made on a CD-R or CD-RW disc that does not support high speed writing. In this case, copy a CD onto the HDD first, then perform "Digital Move" on a CD-R or CD-RW disc at 4x speed.

COPY　　　　　　　　　　　　　　　　▷/◻◻
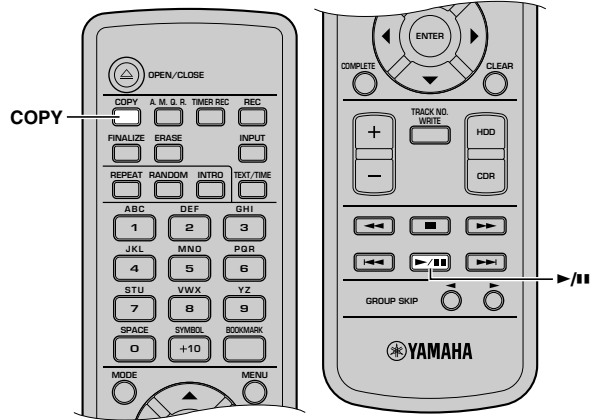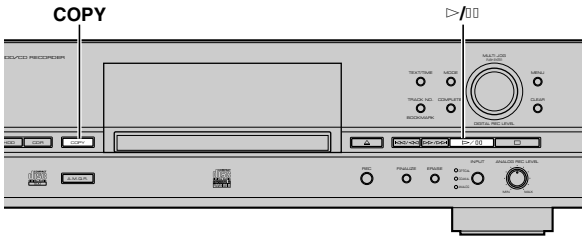
1. Set the original CD in the disc tray.

This unit starts reading the information (type and capacity of a CD) when a CD is loaded.

The following message appears during reading (the process may take 10 to 20 seconds depending on the disc condition).

```
-Reading-
  L
  R  -30 -10 -6 -2  0
```

When reading the information has been completed, the display changes as follows, and this unit becomes ready for operation.

Total number of tracks   Total time

```
 14      6817
  L
  R  -30 -10 -6 -2  0   TOC GROUP
                        CD
```

↓

```
  1        :
  L
  R  -30 -10 -6 -2  0   TOC GROUP
                        CD
```
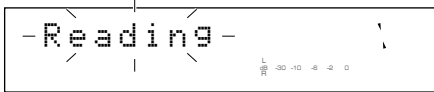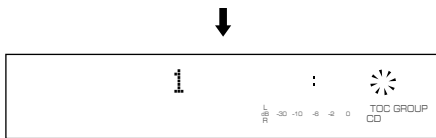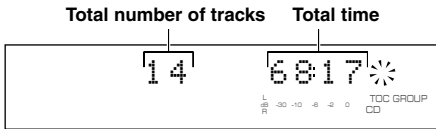
2. Press COPY three times.

The following message appears on the display, and this unit enters the duplicate standby mode. Duplication has not been started yet at this stage.

```
 Duplicate                    REC
  DUPLCT
       ALL SYNC   DIG L  -30 -10 -6 -2  0  TOC
                      R                    CD
```

↓

```
        1  1    000        REC
  DUPLCT
       ALL SYNC   DIG L  -30 -10 -6 -2  0  TOC
                      R                    CD
```
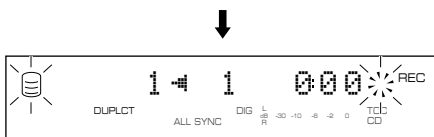
3. Press ▷/◻◻ to start copying from the CD onto the HDD.

The copying conditions are as follows:

- Copy Method:　"Digital Copy"
- Copy Level:　　0dB
- Copy Speed:　　"Best Effort"

- If copying is canceled by ◻ being pressed, even the data that has been copied before cancellation does not remain on the HDD.
- If a track is copy protected by the SCMS standard (P.82), that track cannot be copied onto the HDD.

When copying from the CD onto the HDD has been completed, the following message appears on the display.

```
 Change  Discs!        REC
  DUPLCT
       ALL SYNC   DIG L  -30 -10 -6 -2  0  TOC
                      R                    CD
```

4. Set a new CD-R or CD-RW disc in the disc tray.

The unit starts to read the disc information, then starts copying track data from the HDD to a CD-R or CD-RW disc.

Recording 1%
DUPLCT AUTO DIG M L
SYNC R -30 -10 -6 -2 0 CDR

The copying conditions are as follows:

• Copy Method: "Digital Move"

• Copy Level: 0dB

• Copy Speed: "Best Effort"

Memo

The OPC (Optimum Power Control) feature may start automatically depending on disc conditions. In this case, the message "OPC Adjust" appears on the display until the adjustment is done (about 10 seconds) before the copy process starts.

CD TEXT

If a CD to be duplicated has CD TEXT that can be copied, CD TEXT will be automatically copied at duplication.

■ Duplicating with high quality sounds (Audio Master Quality Recording)

You can duplicate a CD with high quality sound with the Audio Master Quality Recording feature.

Notes

• Audio Master Quality Recording can be used only for duplicating on a new CD-R disc.

• Recordable time is 63 minutes for a 74-minute CD-R disc, and 68 minutes for an 79-minute CD-R disc.
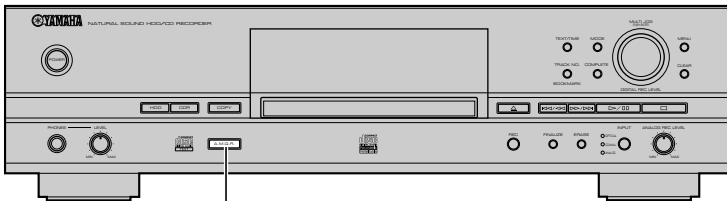
A.M.Q.R.
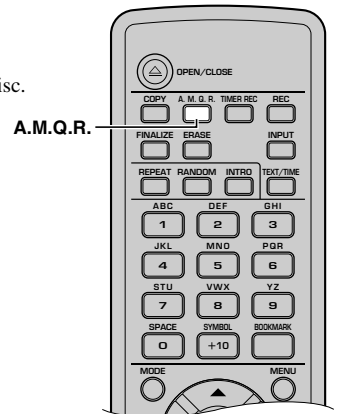
A.M.Q.R.

1. Press A.M.Q.R. while the unit is in the duplicate standby mode (P.45).

The A.M.Q.R. indicator lights up on the display.

DUPLCT A.M.Q.R.

2. Carry out steps 3 and 4 in "DUPLICATING A CD" (P.45) to duplicate a CD (copy from a CD to the HDD and copy from the HDD to a new CD-R or CD-RW disc).
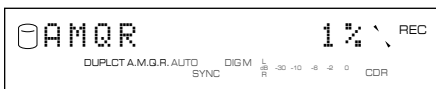
AMQR 1%
DUPLCT A.M.Q.R. AUTO DIG M L
SYNC R -30 -10 -6 -2 0 CDR

The copying conditions are as follows:

• Copy Method: "Digital Move"

• Copy Level: 0dB

• Copy Speed: Best Effort

Notes

• When total time of the CD to be duplicated exceeds recordable time on a CD-R disc (63 minutes for a 74-minute CD-R disc and 68 minutes for an 79-minute CD-R disc), the following message appears on the display. In this case, Audio Master Quality Recording cannot be used.

No Enough Spc
DUPLCT A.M.Q.R. DIG L
ALL SYNC R -30 -10 -6 -2 0 TOC
CD

• When a CD-R disc other than a 74-minute, 79-minute or 4x writing compatible CD-R disc is loaded, or a CD-RW disc is loaded on this unit, the following message appears on the display. In this case, Audio Master Quality Recording cannot be used.

Unavailable
DUPLCT A.M.Q.R. DIG L
ALL SYNC R -30 -10 -6 -2 0 TOC
CD

• Once copying starts, no button operation is effective until copying is completed.

When copying has been completed, the operation of the HDD and the CD automatically stops.

FINALIZING A CD-R/CD-RW DISC

Finalization is the process that concludes recording, and allows a CD-R disc to be played on a standard CD player or a CD-RW disc to be played on a CD-RW-compatible player.

FINALIZE ▷/⏸

FINALIZE

▶/⏸

4

CD-R/CD-RW COPYING
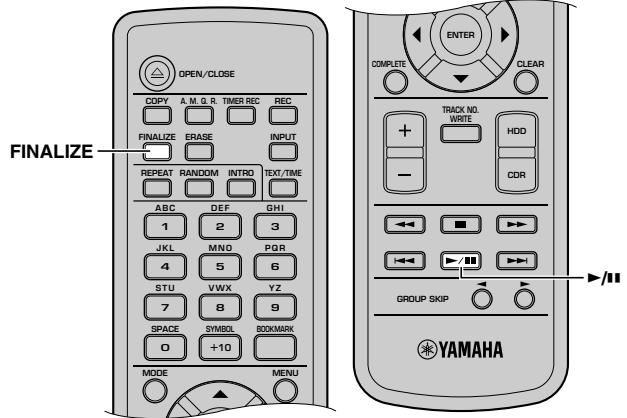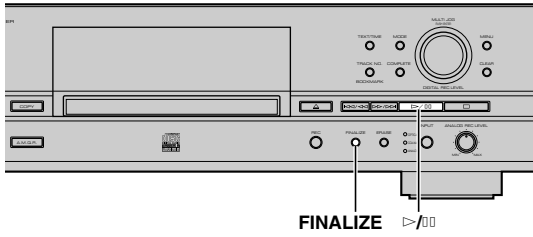
1. Set a not-finalized CD-R or CD-RW disc in the disc tray.

2. Press FINALIZE.

The confirmation message appears on the display.

To cancel finalization, press □.

```
Finalize OK ?
          L
          R  -30 -10 -6 -2  0   CDR
```

3. Press ▷/⏸ to start finalization.

```
-Finalizing-        REC
                 --
                    CDR
```
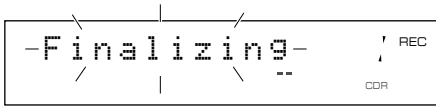
The level meter shows the finalization progress on the display.

```
□□□□□□□□□□□□
                    CDR
```

When starting finalization

```
■■■■■■□□□□□
                    CDR
```
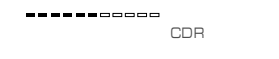
During finalization

When finalization is completed, the TOC indicator lights and the unit enters the stop mode.

```
                    TOC
                    CDR
```

Notes

- Further recording is not possible onto a finalized CD-R disc. Make sure that all recordings have been completed before finalization.
- Make sure a CD-R or CD-RW disc has no scratches, dust, fingerprints or similar marks before loading. Wipe a CD-R or CD-RW disc if there is any dust on it.
- Once the finalization process has started, no other operation is possible until finalization is completed.
- Never turn off the power or disconnect the power cord during finalization.

English

47

You can erase the data recorded on a CD-RW disc. New recordings can be made in the space created by erasing. The following four types of erasing are possible with this unit.

ERASE ▷/◫◫

ERASE

▶/◫◫
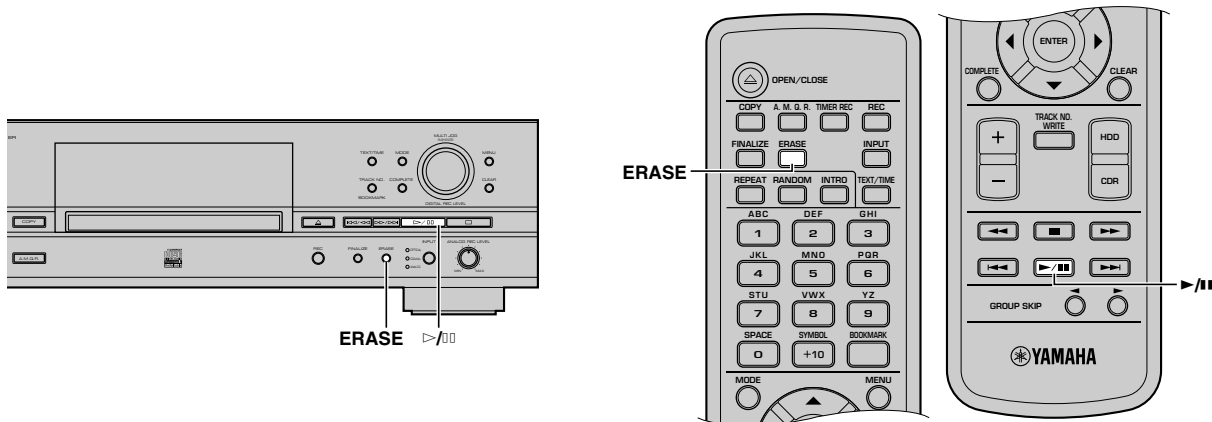
■ Erasing last tracks

This operation erases the last track on a disc. "Last Track Erase" cannot be performed if a CD-RW disc has been finalized, or only one track has been recorded on the disc.

1. **Set a not-finalized CD-RW disc in the disc tray, then press ERASE.**

"Erase Last ?" appears on the display.

```
Erase  Last ?  ⚹
                      L
                      dB  -30  -10  -6  -2  0   TRACK
                      R                         CDRW
```
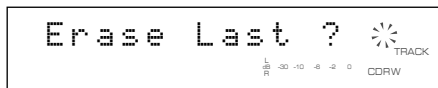
Go to the next step when erasing only the last track. To erase two or more tracks, rotate the MULTI JOG knob (press +/–, ▲ or ▼ on the remote control) to specify the track number (to start erasing from).

```
Erase      2-  9? ⚹
                      L
                      dB  -30  -10  -6  -2  0   TRACK
                      R                         CDRW
```
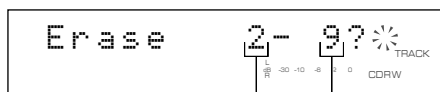
Track to start erasing from   **Last track**

To cancel erasing, press ◻.

2. **Press ▷/◫◫ to start erasing.**

"Erasing" flashes on the display, and the level meter shows the erasing progress.

■ Erasing all tracks

This operation erases all tracks recorded on a CD-RW disc. TOC will be erased also if a CD-RW disc has been finalized.

1. **Set a CD-RW disc in the disc tray, then press ERASE repeatedly until "Erase ALL ?" appears on the display.**
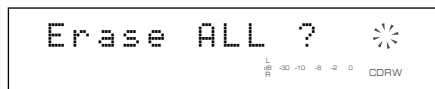
```
Erase  ALL ?   ⚹
                      L
                      dB  -30  -10  -6  -2  0
                      R                         CDRW
```

To cancel erasing, press ◻.

2. **Press ▷/◫◫ to start erasing.**

"Erasing" flashes on the display, and the level meter shows the erasing progress.

■ Erasing TOC

This operation erases TOC (Table of Contents) data from a finalized CD-RW disc. After erasing TOC data, you can record another track data onto the CD-RW disc.

1. **Set a finalized CD-RW disc in the disc tray, then press ERASE.**

"Erase TOC ?" appears on the display.
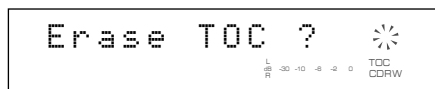
```
Erase  TOC ?   ⚹
                      L
                      dB  -30  -10  -6  -2  0   TOC
                      R                         CDRW
```

To cancel erasing, press ◻.

2. **Press ▷/◫◫ to start erasing.**

"Erasing" flashes on the display, and the level meter shows the erasing progress.

Memo

The TOC indicator turns off when "TOC Erase" has been completed.

■ Initializing a CD-RW disc

This operation initializes a CD-RW disc.

1. **Set a CD-RW disc in the disc tray, then press and hold ERASE for about two seconds.**

"Erase Disc ?" appears on the display.

```
Erase  Disc  ?  ☀

L
R  -30  -10  -6  -2  0    CDRW
```

To cancel erasing, press □.

2. **Press ▷/❚❚ to start erasing.**

"Erasing" flashes on the display, and the level meter shows the erasing progress (the process takes about 20 minutes).

Notes

- "Erase Last" and "Erase TOC" cannot be applied to a CD-RW disc recorded with "Full Auto" (P.42) (except for adding track data to a disc without finalization) or a CD-RW disc recorded with duplication.
- Never turn off the power of this unit during erasing.
- If "Check Disc" appears on the display during erasing, and erasing stops, there may be dust or damage on the CD-RW disc. Check the CD-RW disc and start the erasing operation again.

4

CD-R/CD-RW COPYING

LIST OF EDIT MENU

In the edit menu, you can edit album, track, and disc data stored in the HDD. Please select the menu listed below for any purpose. Also, the Undo feature enables to cancel the last edit operation.

Edit menu		Menu content	Selectable during playback*	Page
Album Edit	Album New	To create a new album	✕	52
	Edit Stored	To edit an already created album	✕	53
	Album Copy	To copy other group as an album	✕	54
	Album Rename	To change the album number	✕	54
	Album Delete	To delete an album	○	55
	Album Pack	To eliminate unused album numbers	✕	55
	Album Title	To assign an album title	○	55
	Track Shuffle	To change the order of tracks in an album	○	56
	Track Level	To adjust the track level in an album	○	56
	Tr. Interval	To adjust each track interval in an album	○	57
Track Edit	Track Rename	To change a track number	○	58
	Track Adjust	To adjust the beginning of a track	○	59
	Track Erase	To erase a track	○	60
	Part Erase	To erase the part of a track	○	60
	Track Combine	To combine a series of tracks	○	62
	Track Divide	To divide one track into two	○	62
	Track Pack	To eliminate unused track numbers	✕	63
	Add Fade In	To add fade-in to the beginning of a track	○	64
	Add Fade Out	To add fade-out to the end of a track	○	64
	Track Title	To assign a track title	○	65
Disc Edit	Disc Rename	To change a disc number	○	67
	Disc Erase	To erase a disc	○	67
	Disc Combine	To combine a series of discs	○	68
	Disc Divide	To divide one disc into two	○	68
	Disc Pack	To eliminate unused disc numbers	✕	69
	Disc Title	To assign a disc title	○	69
Undo		To cancel the editing operation	✕	70

*A menu with ✕ mark is not available during playback. A menu with ○ mark is available in any case. However, if you carry out an edit operation during playback, you cannot select an item (album, disc, or track) other than one currently played back.

■ Cursor button operations in the edit menu

In the edit menu, you can also use the cursor buttons although cursor button operations are not explained in each procedure (P.52-69). It makes edit operations easier.
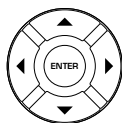
▲, ▼: Selects items or parameters.

◄, ►: Moves the insertion point.

ENTER : Confirms items or parameters selected by pressing +/–, ▲ or ▼.

■ Entering characters in the edit menu

Entering the title characters by using the MULTI JOG knob

1. Rotate the MULTI JOG knob.

When the **MULTI JOG** knob is rotated clockwise, characters appear in the order of alphabetical capital letters, alphabetical lower case letters, numbers, and symbols.

2. Press the MULTI JOG knob to confirm the selected character.

The cursor moves to the next space. Repeat steps 1 and 2 until the title is complete. A title can contain up to 32 characters.

Entering the title characters by using the alphabetical/numeric buttons on the remote control

1. Select the character to be used for the title by using the alphabetical/numeric buttons on the remote control.

Alphabetical capital letters, alphabetical lower case letters, and numbers switch each time the buttons are pressed. To insert a space, press SPACE. To use a symbol, press SYMBOL to select the desired symbol.

2. Select the next character by pressing one of the alphabetical/numeric buttons.

The cursor automatically moves to the next space. When you need to use the button same to step 1, press ►► to move the insertion point, then press the alphabetical/numeric button.

Correcting the characters

Move the cursor to the character to be corrected by pressing ◁◁/◁◁ or ▷▷/▷▷ (◄◄ or ►► on the remote control). To clear the selected character, press CLEAR. To insert a character before the selected character, use the MULTI JOG knob or alphabetical/numeric buttons to select the character.

5

EDITING

EDITING ALBUMS

You can select the desired tracks from among the ones recorded on the HDD and store them as an album in this unit's memory. You can also edit the album afterwards.
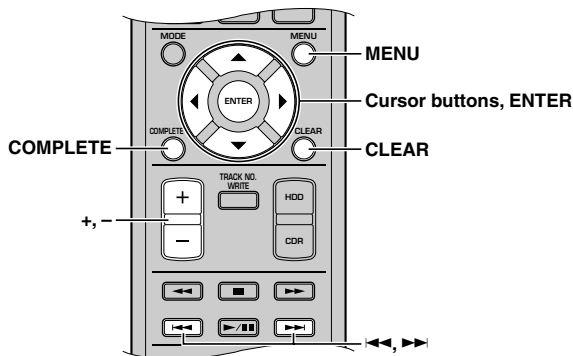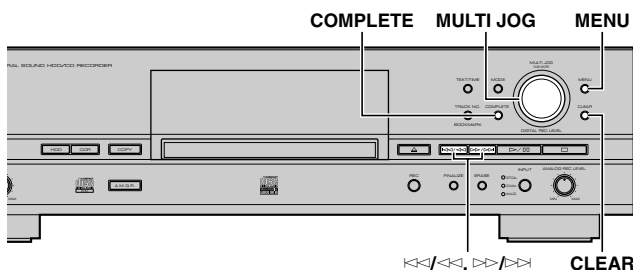
COMPLETE   MULTI JOG   MENU

MENU

Cursor buttons, ENTER

COMPLETE

CLEAR

+, −

◁◁/◁◁, ▷▷/▷▷

CLEAR

I◄◄, ►►I

1. Press MENU while the HDD is selected (P.14).

The display changes for the menu item selection.

```
⊟Album  Edit
              L
           dB  -30  -10  -6  -2  0
```

2. Press MULTI JOG knob (ENTER on the remote control).

The display changes for the editing the menu item selection.

3. Rotate the MULTI JOG knob (press +/−, ▲ or ▼ on the remote control) to select a menu item, then press MULTI JOG knob (ENTER on the remote control) to confirm the selection.

The followings are the album editing menu items.

- Album New* (at right)
- Edit Stored* (P.53)
- Album Copy* (P.54)
- Album Rename* (P.54)
- Album Delete (P.55)
- Album Pack* (P.55)
- Album Title (P.55)
- Track Shuffle (P.56)
- Track Level (P.56)
- Tr. Interval (P.57)

An asterisk (*) next to a menu item indicates that the menu cannot be selected during playback.

Memo

- If MENU is pressed during editing, entry of the selection is canceled, and then this unit returns to the following state;
  – This unit returns to the editing menu item selection if having started editing during the stop mode.
  – This unit returns to the playback if having started editing during the playback.
- If □ is pressed during editing, all entry of the selection is canceled, and this unit returns to the stop mode.

Album New

You can create a new album by selecting the desired tracks from among the ones recorded on the HDD.

1. If "Album New" is selected (at left), the following screen appears.

Source disc   Source track

```
⊟        D O O 1   1 → 1
                L
             dB  -30  -6  -2  0              GROUP
```
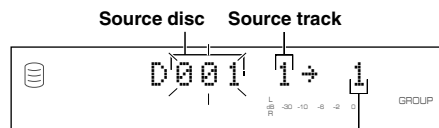
Track in the album to be created

2. Rotate the MULTI JOG knob (press +/− on the remote control) to select the source disc.

3. Press the MULTI JOG knob (ENTER on the remote control) to confirm the source disc.

The number of the source track flashes.

Press CLEAR to cancel the confirmed selection.

4. Rotate the MULTI JOG knob (press +/− on the remote control) to select the source track.

5. Press the MULTI JOG knob (ENTER on the remote control) to confirm the source track.

The track number of the album being created will be advanced to the next, and the display returns to the one shown in step 1. Repeat steps 2 to 5 to select other discs and tracks.

Press CLEAR to cancel the confirmed selection.

6. Press COMPLETE.

A new album is created with the selected tracks recorded on it.
This unit returns to the editing menu item selection.

Memo

- You can switch the display by pressing TEXT/TIME (P.18) while an album is being made:
  – If the title is assigned to the source disc or track, the title appears.
  – By pressing TEXT/TIME while the title is being displayed, the total time of the album being made appears for approximately one second, and the display returns to the one in step 1.
  – If no title is assigned to the source disc or track, the total time of the album being made appears for approximately one second, and the display returns to the one in step 1.
- You can create a new album from the bookmark list (P.24). For details, refer to "Album Copy" (P.54).

Edit Stored

You can add tracks to or delete tracks from an already created album.

1. **If "Edit Stored" is selected (P.52), the following screen appears.**
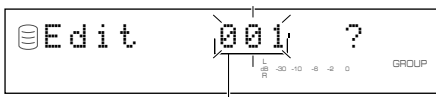
```
⊜Edit      001   ?
                  L
                  R  -30 -10 -6 -2  0    GROUP
```

Album to be edited

2. **Rotate the MULTI JOG knob (press +/– on the remote control) to select the album to be edited.**

3. **Press the MULTI JOG knob (ENTER on the remote control) to confirm the album to be edited.**

The following message appears on the display.

To add new tracks to the album, carry out steps 4 to 9 in "When adding new tracks". To delete tracks from the album, carry out steps 4 to 6 in "When deleting tracks".

Disc number   Track number

```
⊜         D001  1→15
                  L
                  R  -30 -10 -6 -2  0    GROUP
```
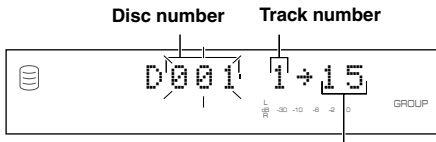
Track number in the album

(When adding new tracks)

4. **Press ⊲⊲/⊲ or ⊳⊳/⊳⊳ (◄◄ or ►► on the remote control) to select the track number to where a new track will be added.**

```
⊜         D001  1→13
                  L
                  R  -30 -10 -6 -2  0    GROUP
```
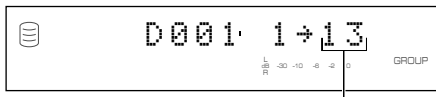
Track number (destination)

5. **Rotate the MULTI JOG knob (press +/– on the remote control) to select the disc where the original track is stored.**

6. **Press the MULTI JOG knob (ENTER on the remote control) to confirm the disc.**

Press CLEAR to cancel the confirmed selection.

7. **Rotate the MULTI JOG knob (press +/– on the remote control) to select the track to be added in the album.**

8. **Press the MULTI JOG knob (ENTER on the remote control) to confirm the track.**

When continuing to add tracks to the album, repeat steps 4 to 8.

9. **Press COMPLETE.**

The selected tracks are added to the album.

This unit returns to the editing menu item selection.

(When deleting tracks)

4. **Press ⊲⊲/⊲ or ⊳⊳/⊳⊳ (◄◄ or ►► on the remote control) to select the track number to be deleted.**

```
⊜         D004  2→11
                  L
                  R  -30 -10 -6 -2  0    GROUP
```
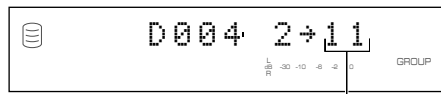
Track number to be deleted

5. **Press CLEAR.**

Memo

The tracks following the deleted track will automatically be down-numbered.

When continuing to delete tracks from the album, repeat steps 4 and 5.

6. **Press COMPLETE.**

The selected tracks are deleted from the album.

This unit returns to the editing menu item selection.

5

EDITING

English

Album Copy

You can copy the entire disc, album, or bookmark to a new album.

1. **If "Album Copy" is selected (P.52), the following screen appears.**

```
⊟Copy        D001?
            L
            R  -30 -10  -6  -2  0      GROUP
```
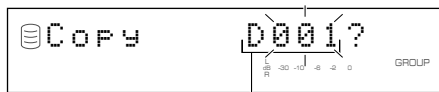
      Group to be copied from

2. **Rotate the MULTI JOG knob (press +/– on the remote control) to select the group to be copied from.**

The group to be copied from switches in the order of "disc" → "album" → "bookmark".

3. **Press the MULTI JOG knob (ENTER on the remote control) to confirm the group to be copied from.**

The display scrolls to the left to indicate the number of the group to be copied from and the number of the album to be copied to. The album to be copied on is assigned the smallest available number.

```
⊟            D001→002
            L
            R  -30 -10  -6  -2  0      GROUP
```
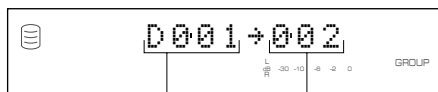
Group to be copied from　　**Album to be copied to**

Press CLEAR to cancel the confirmed selection.

4. **Press COMPLETE.**

The selected group is copied to a new album.

This unit returns to the editing menu item selection.

Album Rename

You can move the album and assign a new number.

1. **If "Album Rename" is selected (P.52), the following screen appears.**

```
⊟Rename        001?
            L
            R  -30 -10  -6  -2  0      GROUP
```
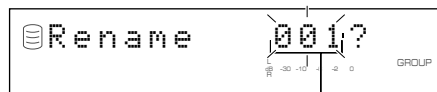
      Album to be moved

The number of the album to be moved flashes.

2. **Rotate the MULTI JOG knob (press +/– on the remote control) to select the album to be moved.**

3. **Press the MULTI JOG knob (ENTER on the remote control) to confirm the album to be moved.**

The display scrolls to the left to indicate the number of the album to be moved and the new album number.

```
⊟            A001→002
            L
            R  -30 -10  -6  -2  0      GROUP
```
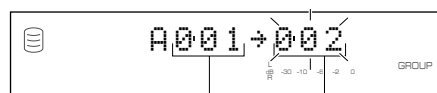
Album to be moved　　**New album number**

Press CLEAR to cancel the confirmed selection.

4. **Rotate the MULTI JOG knob (press +/– on the remote control) to select the new album number.**

5. **Press the MULTI JOG knob (ENTER on the remote control) to confirm the new album number.**

Press CLEAR to cancel the confirmed selection.

6. **Press COMPLETE.**

The selected album has been moved and assigned a new number.

This unit returns to the editing menu item selection.

Memo

- If the selected new album number is already in use, the albums following this renumbered album will be automatically up-numbered by one. However, if there is any unused album number, only the albums up to that number will be up-numbered.

- The original number of the album that has been renumbered will be available for future use.

Album Delete

You can delete an existing album.

1. **If "Album Delete" is selected (P.52), the following screen appears.**

```
⊟Delete     001?
                          GROUP
     R  -30  -10   -2  0
```
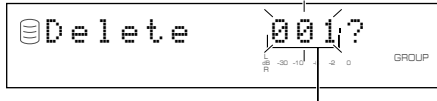
Album to be deleted

If the edit menu is selected during playback, the unit automatically selects the item to be edited. In this case, skip to step 4 since you do not need to select an item.

2. **Rotate the MULTI JOG knob (press +/– on the remote control) to select the album to be deleted.**

3. **Press the MULTI JOG knob (ENTER on the remote control) to confirm the album.**

Press CLEAR to cancel the confirmed selection.

4. **Press COMPLETE.**

The selected album has been deleted.

This unit returns to the editing menu item selection.

Memo

The number of the deleted album will be available for future use.

Album Pack

You can re-organize the album numbers by eliminating unused album numbers that have been created by changing album numbers or deleting albums.

1. **If "Album Pack" is selected (P.52), the following screen appears.**

```
⊟Pack  ?
            L
     R  -30  -10  -6  -2  0
```
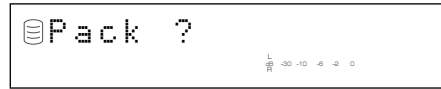
2. **Press COMPLETE.**

The album numbers are re-organized without unused album numbers.

This unit returns to the editing menu item selection.

Before "Album Pack"

1		3	4		6

1	2	3	4	5	6

After "Album Pack" (Unused albums are removed)

Album Title

You can assign a title to a created album.

1. **If "Album Title" is selected (P.52), the following screen appears.**

```
⊟Title      001?
                          GROUP
     R  -30  -10   -2  0
```

Album to assign the title to

If the edit menu is selected during playback, the unit automatically selects the item to be edited. In this case, skip to step 4 since you do not need to select an item.

2. **Rotate the MULTI JOG knob (press +/– on the remote control) to select the album to assign a title to.**

3. **Press the MULTI JOG knob (ENTER on the remote control) to confirm the album to assign a title to.**

```
⊟ ▉
            L
     R  -30  -10  -6  -2  0
```

The cursor flashes. (If the selected album already has a title, the title appears on the display.)

4. **Use the MULTI JOG knob (press alphabetical/numeric buttons on the remote control) to enter characters.**

For details on selecting characters, refer to "Entering characters in the edit menu" (P.51).

5. **Press COMPLETE when all the characters have been entered.**

The title is assigned to the selected album. Press TEXT/TIME to switch the display information as necessary (P.18).

This unit returns to the editing menu item selection. (If the edit menu is carried on during playback, playback restarts.)

5

EDITING

English

55

Track Shuffle

You can change the order of tracks in an album.

1. If "Track Shuffle" is selected (P.52), the following screen appears.

Track number

```
⊜Shuffle001 1?
                    L
                    R -30 -10 -6 -2  0  GROUP
```
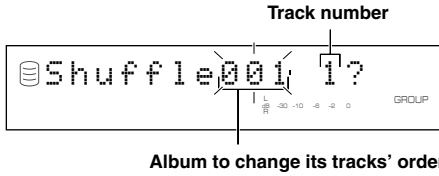
Album to change its tracks' order

If the edit menu is selected during playback, the unit automatically selects the item to be edited. In this case, skip to step 6 since you do not need to select an item.

2. Rotate the MULTI JOG knob (press +/– on the remote control) to select the album to change its track' order.

3. Press the MULTI JOG knob (ENTER on the remote control) to confirm the album.

The number of the track to be moved flashes.

Press CLEAR to cancel the confirmed selection.

4. Rotate the MULTI JOG knob (+/– on the remote control) to select the track to be moved.

5. Press the MULTI JOG knob (ENTER on the remote control) to confirm the track.

The display scrolls to the left to indicate the number of the album to change its tracks' order, the number of the track to be moved, and the new track number.
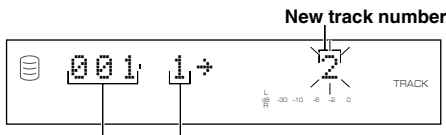
New track number

```
⊜  001 1→     2
                    L
                    R -30 -10 -6 -2  0   TRACK
```

Album to change its   Track to be moved
track' order

Press CLEAR to cancel the confirmed selection.

6. Rotate the MULTI JOG knob (press +/– on the remote control) to select the new track number.

7. Press the MULTI JOG knob (ENTER on the remote control) to confirm the new track number.

Press CLEAR to cancel the confirmed selection.

8. Press COMPLETE.

The selected track has been moved and assigned a new number.
This unit returns to the editing menu item selection.

Track Level

You can adjust the sound level of track in an album.

1. If "Track Level" is selected (P.52), the following screen appears.

Track to adjust its level

```
⊜Level  001 1?
                    L
                    R -30 -10 -6 -2  0  GROUP
```
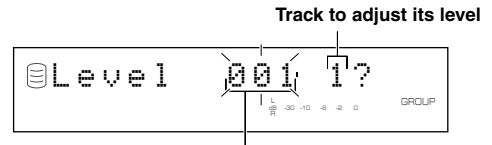
Album to adjust its tracks' level

If the edit menu is selected during playback, the unit automatically selects the item to be edited. In this case, skip to step 6 since you do not need to select an item.

2. Rotate the MULTI JOG knob (press +/– on the remote control) to select the album to adjust its tracks' level.

3. Press the MULTI JOG knob (ENTER on the remote control) to confirm the album.

The number of the track to adjust its level flashes.

Press CLEAR to cancel the confirmed selection.

4. Rotate the MULTI JOG knob (+/– on the remote control) to select the track to adjust.

5. Press the MULTI JOG knob (ENTER on the remote control) to confirm the track.

Playback of the confirmed track starts, and the following message appears on the display.

```
⊝Tr. 1    0.0dB   LEVEL
                    L
                    R -30 -10 -6 -2  0
```

Track to adjust its level

Press CLEAR to cancel the confirmed selection.

6. Rotate the MULTI JOG knob (press +/– on the remote control) to adjust the level.

Adjustment is possible in the –12dB to +12dB range by 0.4dB steps.

You can compare the level with the previous or next track' level by pressing ⊲⊲/⊲⊲ or ⊳⊳/⊳⊳ (◄◄ or ►► on the remote control).

7. Press COMPLETE.

The level of the selected track is confirmed.

This unit returns to the editing menu item selection. (If the edit menu is carried on during playback, playback restarts.)

- The level may change slightly out of the point that the track itself changes during the playback of the album with its tracks' level adjusted. In this case, add the 1-to-2 second interval using the "Tr. Interval" function (at right).
- You can not copy the album with its tracks' level adjusted in the Audio Master Quality Recording feature (P.41).
- You can also adjust the copy level (P.44) when copying the album with its tracks' level adjusted. The copy will be made in the total level adjusted in "Track Level" and "Copy Level" in the copy menu.

Tr. Interval

You can insert an interval at the beginning of the selected track of an album.

1. **If "Tr. Interval" is selected (P.52), the following screen appears.**

Track number

```
Int.    001  1?
                              GROUP
    L
    R  -30 -10  -6  -2  0
```
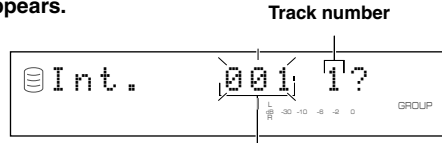
Album to adjust its track interval

If the edit menu is selected during playback, the unit automatically selects the item to be edited. In this case, skip to step 6 since you do not need to select an item.

2. **Rotate the MULTI JOG knob (press +/– on the remote control) to select the album to adjust its tracks interval.**

3. **Press the MULTI JOG knob (ENTER on the remote control) to confirm the album.**

The number of the track to be adjusted flashes.

Press CLEAR to cancel the confirmed selection.

4. **Rotate the MULTI JOG knob (+/– on the remote control) to select the track to adjust its interval.**

5. **Press the MULTI JOG knob (ENTER on the remote control) to confirm the track.**

The ending of the previous track for 5 seconds and the beginning of the selected track for 5 seconds are repeatedly played.

```
Int:3.5      513
                              TIME
    L
    R  -30 -10  -6  -2  0
```
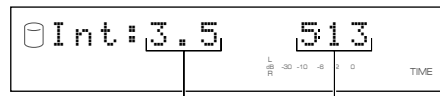
Track interval   **Playing time of the track**

Press CLEAR to cancel the confirmed selection.

If there is no track before the track that is selected and confirmed, "No Previous" appears on the display, and this unit returns to step 4. (If the edit menu is selected during playback, the unit cancels the edit operation.)

6. **Rotate the MULTI JOG knob (press +/– on the remote control) to adjust the interval.**

Adjustment is possible in the 0 to 9.9 seconds range by 0.1-second steps.

If you stop rotating the MULTI JOG knob, the ending of the previous track for 5 seconds and the beginning of the selected track for 5 seconds will be repeatedly played with the adjusted interval.

7. **Press COMPLETE.**

The interval between the selected track and the previous track is confirmed.

This unit returns to the editing menu item selection. (If the edit menu is carried on during playback, playback restarts.)

5

EDITING

English

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EDITING TRACKS

You can do various editing operations on the tracks that have been recorded on the HDD.
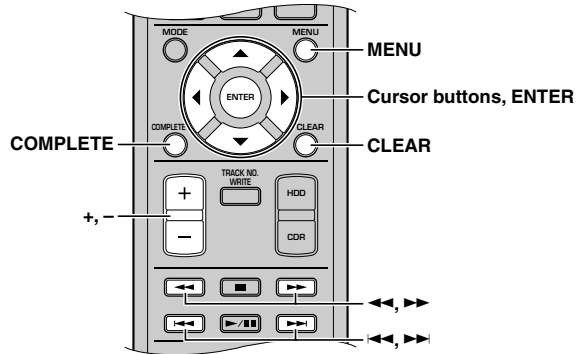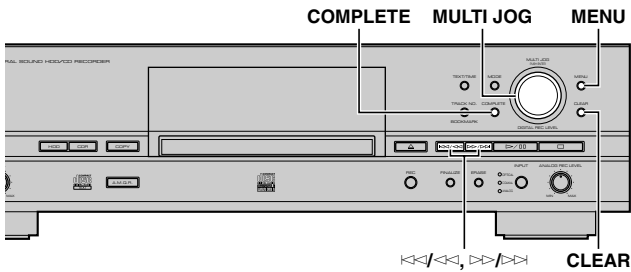
COMPLETE   MULTI JOG   MENU

COMPLETE

+, −

⊩⊲/⊲⊲, ⊳⊳/⊳⊩   CLEAR

MODE

MENU

Cursor buttons, ENTER

CLEAR

TRACK NO. WRITE   HDD   CDR

◄◄, ►►

⊩◄◄, ►►⊩

1. Press MENU while the HDD is selected (P.14).

The display changes for the menu item selection.

2. Rotate the MULTI JOG knob (press +/−, ▲ or ▼ on the remote control) to select "Track Edit"
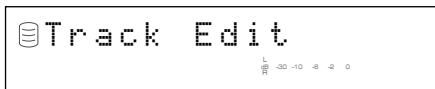
```
⊟Track Edit
         L
         ⊟ -30 -10 -6 -2 0
```

3. Press MULTI JOG knob (ENTER on the remote control).

The display changes for the editing menu item selection.

4. Rotate the MULTI JOG knob (press +/−, ▲ or ▼ on the remote control) to select a menu item, then press MULTI JOG knob (ENTER on the remote control) to confirm the selection.

The followings are the track editing menu items:

- Track Rename (at right)
- Track Adjust (P.59)
- Track Erase (P.60)
- Part Erase (P.60)
- Track Combine (P.62)
- Track Divide (P.62)
- Track Pack* (P.63)
- Add Fade In (P.64)
- Add Fade Out (P.64)
- Track Title (P.65)

* "Track Pack" cannot be selected during playback.

Memo

- If MENU is pressed during editing, entry of the selection is canceled, and then this unit returns to the following state;
  – This unit returns to the editing menu item selection if having started editing during the stop mode.
  – This unit returns to the playback if having started editing during playback.
- If □ is pressed during editing, all entry of the selection is canceled, and this unit returns to the stop mode.

Track Rename

You can move a track and assign a new number.

1. If "Track Rename" is selected (at left), the following screen appears.

Disc that contains the track to be moved

```
⊟Rename 001 1?
          L
          ⊟ -30 -10 -6 0      GROUP
```
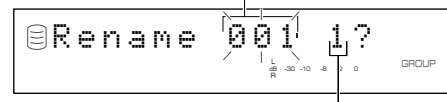
Track to be moved

If the edit menu is selected during playback, the unit automatically selects the item to be edited. In this case, skip to step 6 since you do not need to select an item.

2. Rotate the MULTI JOG knob (press +/− on the remote control) to select the disc that contains the track to be moved.

**3. Press the MULTI JOG knob (ENTER on the remote control) to confirm the disc.**

The number of the track to be moved flashes.

Press CLEAR to cancel the confirmed selection.

4. Rotate the MULTI JOG knob (press +/− on the remote control) to select the track to be moved.

5. Press the MULTI JOG knob (ENTER on the remote control) to confirm the track.

The display scrolls to the left to indicate the disc number that contains the track to be moved, the existing track number, and the new track number.

Disc that contains the track to be moved

```
⊟  001  1→       1
                    L
                    ⊟ -30 -10 -6  0    TRACK
```

Current track number   New track number

Press CLEAR to cancel the confirmed selection.

6. **Rotate the MULTI JOG knob (press +/– on the remote control) to select the new track number.**

7. **Press the MULTI JOG knob (ENTER on the remote control) to confirm the new track number.**

Press CLEAR to cancel the confirmed selection.

8. **Press COMPLETE.**

The selected track is renumbered.

This unit returns to the editing menu item selection. (If the edit menu is carried on during playback, playback restarts.)

Memo

• If the selected new track number is already in use, the tracks following this renumbered track will be automatically up-numbered by one. However, if there is any unused track number, only the tracks up to that number will be up-numbered.

• The original number of the track that has been renumbered will be available for future use.

Track Adjust

You can change the beginning of the track forward or backward.

1. **If "Track Adjust" is selected (P.58), the following screen appears.**

Disc that contains the track to be adjusted

```
Adjust 001 2?
            L
            R  -30  -10  -6     0        GROUP
```
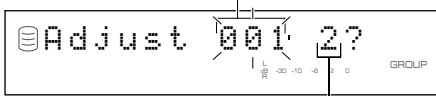
Track to be adjusted

If the edit menu is selected during playback, the unit automatically selects the item to be edited. In this case, skip to step 6 since you do not need to select an item.

2. **Rotate the MULTI JOG knob (press +/– on the remote control) to select the disc that contains the track to be adjusted.**

3. **Press the MULTI JOG knob (ENTER on the remote control) to confirm the disc.**

The number of the track to be adjusted flashes.

Press CLEAR to cancel the confirmed selection.

4. **Select the track to be adjusted by rotating the MULTI JOG knob (pressing +/– on the remote control).**

5. **Press the MULTI JOG knob (ENTER on the remote control) to confirm the track.**

The confirmed track will be played.

The following message appears in the display.

The time length to be adjusted

```
012    +  01000
                  ---- -----
                  -- --       TIME
```
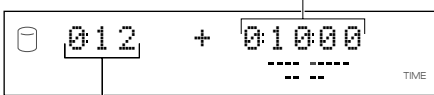
Playing time of the track

Memo

If there is no track before the track that is selected and confirmed, "No Previous" appears on the display, and this unit returns to step 4. (If the edit menu is selected during playback, the unit cancels the edit operation.)

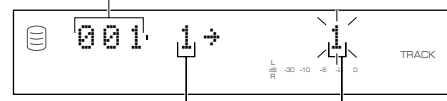**6.** **Rotate the MULTI JOG knob (press +/– on the remote control) to adjust the time length (displacement).**

The time length can be adjusted by "minute: second: frame". (Frame is the unit used for values smaller than 1 second. 75 frames make 1 second.) The unit to be set is flashing. Move the flash to the unit to be adjusted by pressing ⊲⊲/◁◁ or ▷▷/▷▷⊳ (◀◀ or ▶▶ on the remote control).

If you stop rotating the MULTI JOG knob, this unit searches for the temporarily changed beginning point of the track according to the time length setting made, and starts repeated playback from the new beginning point to the end of the disc.

Press CLEAR to cancel the adjustment.

7. **Press COMPLETE.**

The new track beginning point is set.

This unit returns to the editing menu item selection. (If the edit menu is carried on during playback, playback restarts.)

Before "Track Adjust"

1	2
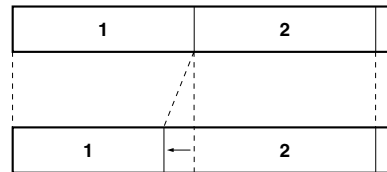
After "Track Adjust" (Track 2 is displaced forward)

1	←	2

Memo

• If the adjusted track includes a part that cannot be copied digitally before adjusting, the adjusted track itself cannot be copied digitally either.

• When the emphasis status of the track to be adjusted is different from that of the previous track, the emphasis status of the track to be adjusted takes precedence over the previous track.

5

EDITING

English

Track Erase

You can erase a selected track.

1. **If "Track Erase" is selected (P.58), the following screen appears.**
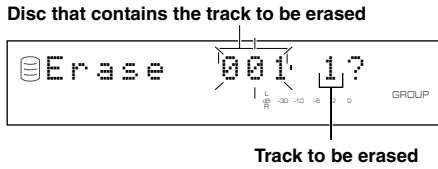
Disc that contains the track to be erased

⊟Erase 001 1?

L
R -30 -10 -6 0   GROUP

Track to be erased

If the edit menu is selected during playback, the unit automatically selects the item to be edited. In this case, skip to step 6 since you do not need to select an item.

2. **Rotate the MULTI JOG knob (press +/– on the remote control) to select the disc that contains the track to be erased.**

3. **Press the MULTI JOG knob (ENTER on the remote control) to confirm the disc.**

The number of the track to be erased flashes.

Press CLEAR to cancel the confirmed selection.

4. **Rotate the MULTI JOG knob (press +/– on the remote control) to select the track to be erased.**

5. **Press the MULTI JOG knob (ENTER on the remote control) to confirm the track.**

Press CLEAR to cancel the confirmed selection.

To check the track to be erased, press ▷/⏸. This unit starts to play the track to be erased repeatedly.

6. **Press COMPLETE.**

The selected track is erased.

This unit returns to the editing menu item selection. (If the edit menu is carried on during playback, playback restarts.)

Memo

The number of the track that has been erased will be available for future use.

Part Erase

You can erase part of a selected track.

1. **If "Part Erase" is selected (P.58), the following screen appears.**
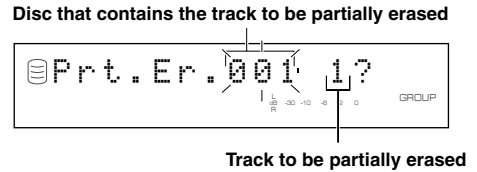
Disc that contains the track to be partially erased

⊟Prt.Er.001 1?

L
R -30 -10 -6 0   GROUP

Track to be partially erased

If the edit menu is selected during playback, the unit automatically selects the item to be edited. In this case, skip to step 6 since you do not need to select an item.

2. **Rotate the MULTI JOG knob (press +/– on the remote control) to select the disc that contains the track to be partially erased.**

3. **Press the MULTI JOG knob (ENTER on the remote control) to confirm the disc.**

The number of the track to be partially erased flashes.

Press CLEAR to cancel the confirmed selection.

4. **Rotate the MULTI JOG knob (press +/– on the remote control) to select the track to be partially erased.**

5. **Press the MULTI JOG knob (ENTER on the remote control) to confirm the track.**

The passage between the point that is 5 seconds before the temporary beginning point of the partial erase and the temporary beginning point (the point that is 10 seconds elapsed from the beginning of the track) is repeatedly played.

Beginning point (minute: second: frame)

▢ 005 A   01000

---- ----
--- ---   TIME

Playing time of the track
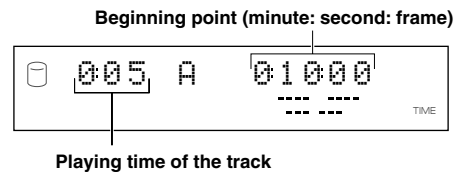
6. **Rotate the MULTI JOG knob (press +/– on the remote control) to select the beginning point of the partial erase.**

The beginning point of the partial erase can be set by "minute: second: frame". The unit to be set is flashing. Move the flash to the unit to be set by pressing ⊲⊲/⊲⊲ or ▷▷/▷▷ (◀◀ or ▶▶ on the remote control).

If you stop rotating the MULTI JOG knob, this unit searches for the beginning point according to the setting made, and starts repeated playback of the passage between the point that is 5 seconds before the beginning point and the beginning point.

7. **Press MULTI JOG knob (ENTER on the remote control) to confirm the beginning point of the partial erase.**

The passage between the temporary ending point of the partial erase (the point that is 10 seconds after the beginning point) and the point that is 5 seconds after the temporary ending point is repeatedly played.

Ending point of the partial erase

```
⬭  020  B   02000
                ---- ----
                --- ---         TIME
```

Playing time of the track
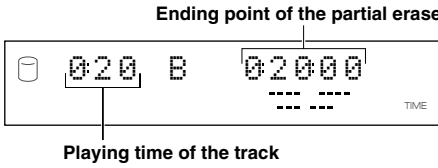
Press CLEAR to cancel the confirmed selection.

8. **Rotate the MULTI JOG knob (press +/– on the remote control) to select the ending point of the partial erase.**

The ending point of the partial erase can be set by "minute: second: frame". The unit to be set is flashing. Move the flash to the unit to be set by pressing ⫷⫷/⫷⫷ or ⫸⫸/⫸⫸ (◄◄ or ►► on the remote control).

If you stop rotating the MULTI JOG knob, this unit searches for the ending point according to the setting made, and starts repeated playback of the passage between the ending point and the point that is 5 seconds after the ending point.

9. **Press MULTI JOG knob (ENTER on the remote control) to confirm the ending point of the partial erase.**

The passage between the point that is 5 seconds before the beginning point and the point that is 5 seconds after the ending point of the partial erase is repeatedly played.

The following message appears on the display.

```
⬭Prt.Er.     005
           L
           R dB -30 -10 -6 -2  0
```

⬆ ⬇

```
⬭Pt.Fix      006
           L
           R dB -30 -10 -6 -2  0
```

| Notes |

• The sound may be interrupted at the joint but it will be played properly after the partial erase is completed.

• The minimum length of a track is four seconds. It is not possible to create a track shorter than four seconds by erasing partially.

Track

```
        ①        ②
```

Track

```
          ③
```
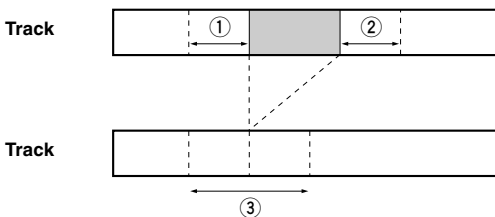
▦ : Part to be erased

① **Repeated passage when setting the beginning point**

② **Repeated passage when setting the ending point**

③ **Repeated passage after confirming the ending point**

To change the ending point, press CLEAR once to return to step 8.

To change the beginning point, press CLEAR twice to return to step 6.

10. **Press COMPLETE.**

The selected part is erased.

This unit returns to the editing menu item selection. (If the edit menu is carried on during playback, playback restarts.)

5

EDITING

English

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Track Combine

You can combine a series of tracks into one.

1. **If "Track Combine" is selected (P.58), the following screen appears.**

Disc that contains the first track to be combined

```
⊟Comb.   001  1?
        L
        R  -30 -10 -8   0      GROUP
```

Track to be the first in the combination

If the edit menu is selected during playback, the unit automatically selects the item to be edited. In this case, skip to step 6 since you do not need to select an item.

2. **Rotate the MULTI JOG knob (press +/– on the remote control) to select the disc that contains the first track for the combination.**

3. **Press the MULTI JOG knob (ENTER on the remote control) to confirm the disc.**

The number of the track to be the first in the combination flashes.

Press CLEAR to cancel the confirmed selection.

4. **Rotate the MULTI JOG knob (press +/– on the remote control) to select the first track for the combination.**

5. **Press the MULTI JOG knob (ENTER on the remote control) to confirm the track.**

The display scrolls to the left to indicate the disc number that contains the first track to be combined, the track number to be the first in the combination, and the track number to be the last in the combination.

Disc that contains the first track for the combination
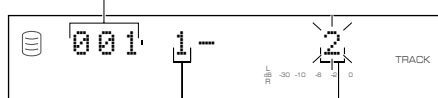
```
⊟  001  1-        2
        L
        R  -30 -10 -8  0      TRACK
```

First track for the   **Second track for the**
combination   **combination**

Press CLEAR to cancel the confirmed selection.

6. **Rotate the MULTI JOG knob (press +/– on the remote control) to select the second track for the combination.**

7. **Press the MULTI JOG knob (ENTER on the remote control) to confirm the track.**

Press CLEAR to cancel the confirmed selection.

8. **Press COMPLETE.**

The two selected tracks and all those between are combined into one track.

This unit returns to the editing menu item selection.

Memo

- When combining a series of tracks, the selected track numbers following the selected first track will be available for future use.
- The track title for the first track is effective for the combined track.
- If there is any track that cannot be copied digitally among the tracks to be combined, the combined track cannot be copied digitally either.
- When tracks with different emphasis status have been combined, the emphasis status of the first track becomes effective for the combined track.

Track Divide

You can divide a track into two at the selected point.

1. **If "Track Divide" is selected (P.58), the following screen appears.**

Disc that contains the track to be divided

```
⊟Divide  001  1?
        L
        R  -30 -10 -8   0      GROUP
```
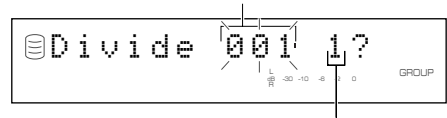
Track to be divided

If the edit menu is selected during playback, the unit automatically selects the item to be edited. In this case, skip to step 6 since you do not need to select an item.

2. **Rotate the MULTI JOG knob (press +/– on the remote control) to select the disc that contains the track to be divided.**

3. **Press the MULTI JOG knob (ENTER on the remote control) to confirm the disc.**

The number of the track to be divided flashes.

Press CLEAR to cancel the confirmed selection.

4. **Rotate the MULTI JOG knob (press +/– on the remote control) to select the track to be divided.**

5. **Press the MULTI JOG knob (ENTER on the remote control) to confirm the track.**

The passage between the temporary dividing point (the point that is 10 seconds elapsed from the beginning of the track) and the point that is 5 seconds after the temporary dividing point is repeatedly played.

Dividing point

```
⊡  012    +  01000
                 ---- -----
                     ---      TIME
```

Playing time of the track

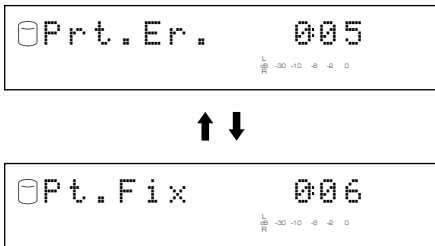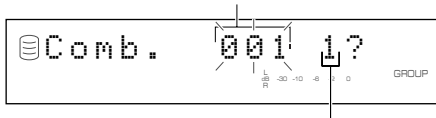**6.** **Rotate the MULTI JOG knob (press +/– on the remote control) to specify the dividing point.**

The dividing point can be set by "minute: second: frame". The unit to be set is flashing. Move the flash to the unit to be set by pressing ⊲⊲/⊲⊲ or ⊳⊳/⊳⊳ (◄◄ or ►► on the remote control).

If you stop rotating the MULTI JOG knob, this unit searches for the dividing point according to the setting made, and starts repeated playback of the passage between the dividing point and the point that is 5 seconds after the dividing point.

Dividing point

Track		

Passage to be repeatedly played
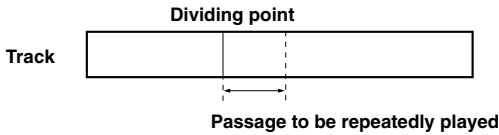
7. **Press COMPLETE.**

The selected track is divided into two at the set dividing point.

This unit returns to the editing menu item selection. (If the edit menu is carried on during playback, playback restarts.)

Notes

- The minimum length of a track is four seconds. It is not possible to create a track that is shorter than four seconds by dividing a track.
- One disc can contain up to 99 tracks. If the disc already contains 99 tracks, "Track No.Full" appears on the display.

Memo

The track numbers following the divided track will be up-numbered by one. However, if there is any unused track number, only the tracks up to that number will be up-numbered.

Before "Track Divide"

1	2		4	5	6	

Divided into two

1	2	3	4	5	6	
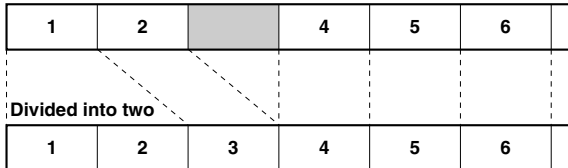
After "Track Divide" (When Track 1 is divided)

Track Pack

You can re-organize the track numbers by eliminating unused track numbers, that have been created by changing track numbers or erasing tracks.

1. **If "Track Pack" is selected (P.58), the following screen appears.**

```
⊜Pack    001   ?
              ▶  -30 -10  -6  -2  0
```

Disc to be organized
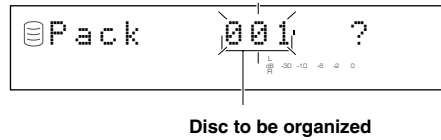
2. **Rotate the MULTI JOG knob (press +/– on the remote control) to select the disc to be organized.**

3. **Press the MULTI JOG knob (ENTER on the remote control) to confirm the disc.**

Press CLEAR to cancel the confirmed selection.

4. **Press COMPLETE.**

The disc is re-organized by eliminating unused track numbers.

This unit returns to the editing menu item selection.

Before "Track Pack"

1		3	4		6	

1	2	3	4	5	6	
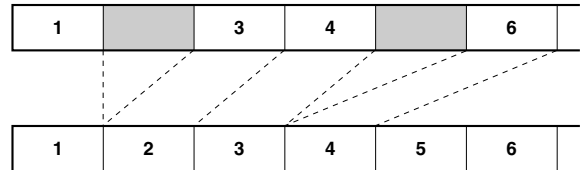
After "Track Pack" (Unused track numbers have been eliminated.)

5

EDITING

Add Fade In

You can add fade-in at the beginning of a track. The beginning of the track is played with gradually rising level when fade-in has been added.

1. If "Add Fade In" is selected (P.58), the following screen appears.

Disc that contains the track to add fade-in

```
⊟Fd.In  001  1?
                      L
                      R  -30 -10 -6  2  0        GROUP
```

Track to add fade-in

If the edit menu is selected during playback, the unit automatically selects the item to be edited. In this case, skip to step 6 since you do not need to select an item.

2. Rotate the MULTI JOG knob (press +/– on the remote control) to select the disc that contains the track to add fade-in.

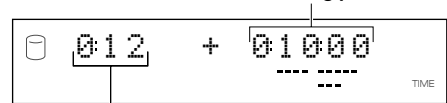**3.** Press the MULTI JOG knob (ENTER on the remote control) to confirm the disc.

The number of the track to add fade-in flashes.

Press CLEAR to cancel the confirmed selection.

4. Rotate the MULTI JOG knob (press +/– on the remote control) to select the track to add fade-in.

5. Press the MULTI JOG knob (ENTER on the remote control) to confirm the track.

The beginning of the track for eight seconds is repeatedly played with a three second (initial setting) fade-in.

Fade-in length

```
⊟F.In : 3      001
                    L
                    R  -30 -10 -6  2  0      TIME
```
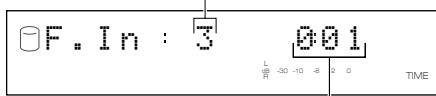
Playing time of the track

6. Rotate MULTI JOG knob (+/– on the remote control) to set the fade-in length.

The fade-in length can be set in the 1 to 10 second range by one second steps.

If you stop rotating the MULTI JOG knob, this unit starts repeated playback of the beginning of the track with a fade-in of the length set in above step, with extra portion for further five seconds.

Press CLEAR to cancel the setting.

7. Press COMPLETE.

The fade-in is added to the beginning of the selected track for the selected length.

This unit returns to the editing menu item selection. (If the edit menu is carried on during playback, playback restarts.)

Memo

• Fade-in cannot be added to a track that is shorter than 21 seconds.

• The fade-in effect becomes ineffective if the following editing is performed to the track which the fade-in is added to.
  – Erasing a certain part of the track (Part Erase).
  – Combining the track (Track Combine).
  – Dividing the track (Track Divide).
  – Adjusting the beginning of the track (Track Adjust).

• If "Track Adjust" has been performed, the fade-in effect of both the adjusted track and the previous track becomes ineffective.

Add Fade Out

You can add fade-out at the end of a track. The end of the track is played with gradually lowering the level when fade-out has been added.

1. If "Add Fade Out" is selected (P.58), the following screen appears.

Disc that contains the track to add fade-out

```
⊟Fd.Out  001  1?
                      L
                      R  -30 -10 -6  2  0        GROUP
```

Track to add fade-out

If the edit menu is selected during playback, the unit automatically selects the item to be edited. In this case, skip to step 6 since you do not need to select an item.

2. Rotate the MULTI JOG knob (press +/– on the remote control) to select the disc that contains the track to add fade-out.
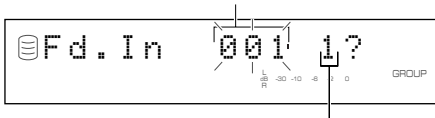
3. Press the MULTI JOG knob (ENTER on the remote control) to confirm the disc.

The number of the track to add fade-out flashes.

Press CLEAR to cancel the confirmed selection.

4. Rotate the MULTI JOG knob (press +/– on the remote control) to select the track to add fade-out.

5. Press the MULTI JOG knob (ENTER on the remote control) to confirm the track.

The ending of the track for eight seconds is repeatedly played with a three second (initial setting) fade-out.

Fade-out length

```
⊟F.Out  3     1001
                    L
                    R  -30 -10 -6  2  0      TIME
```
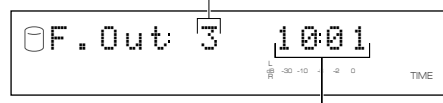
Playing time of the track

6. **Rotate MULTI JOG knob (+/– on the remote control) to set the fade-out length.**

The fade-out length can be set in the 1 to 10 second range by 1-second steps.

If you stop rotating the MULTI JOG knob, this unit starts repeated playback of the ending of the track with a fade-out of the length set in above step, with extra portion for further 5 seconds.

Press CLEAR to cancel the setting.

7. **Press COMPLETE.**

The fade-out is added to the end of the selected track for the selected length.

This unit returns to the editing menu item selection. (If the edit menu is carried on during playback, playback restarts.)

Memo

• Fade-out cannot be added to a track that is shorter than 21 seconds.

• The fade-out effect becomes ineffective if the following editing is performed to the track which the fade-out is added to.
  – Erasing a certain part of the track (Part Erase).
  – Combining the track (Track Combine).
  – Dividing the track (Track Divide).
  – Adjusting the beginning of the track (Track Adjust).

• If "Track Adjust" has been performed, the fade-out effect of both the adjusted track and the previous track becomes ineffective.

Track Title

You can assign a title to a track.

1. **If "Track Title" is selected (P.58), the following screen appears.**

Disc that contains the track to assign a title to
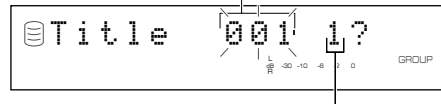
Track to assign a title to

If the edit menu is selected during playback, the unit automatically selects the item to be edited. In this case, skip to step 6 since you do not need to select an item.

2. **Rotate the MULTI JOG knob (press +/– on the remote control) to select the disc that contains the track to assign a title.**

3. **Press the MULTI JOG knob (ENTER on the remote control) to confirm the disc.**

When the disc has been confirmed, the disc number that contains the track to assign a title to flashes.
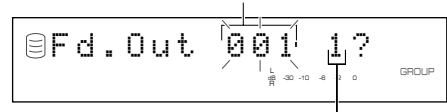
Press CLEAR to cancel the confirmed selection.

4. **Rotate the MULTI JOG knob (press +/– on the remote control) to select the track to assign a title.**

5. **Press the MULTI JOG knob (ENTER on the remote control) to confirm the track.**

The following message appears on the display.

The cursor flashes. (If the selected track already has a title, the title appears on the display.)

6. **Use the MULTI JOG knob (press alphabetical/numeric buttons on the remote control) to enter characters.**

For details on selecting characters, refer to "Entering characters in the edit menu" (P.51).

7. **Press COMPLETE when all the characters have been entered.**

The title is assigned to the selected track. Press TEXT/TIME to switch the display information as necessary (P.18).

This unit returns to the editing menu item selection. (If the edit menu is carried on during playback, playback restarts.)

5

EDITING

English

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EDITING DISCS

You can do various editing operations on the discs that have been recorded on the HDD.
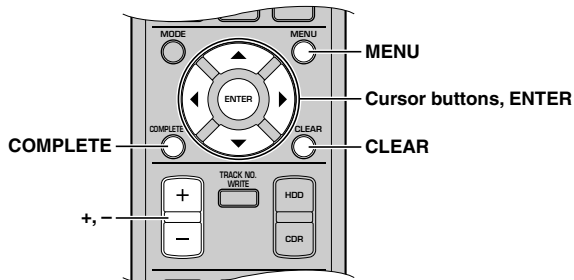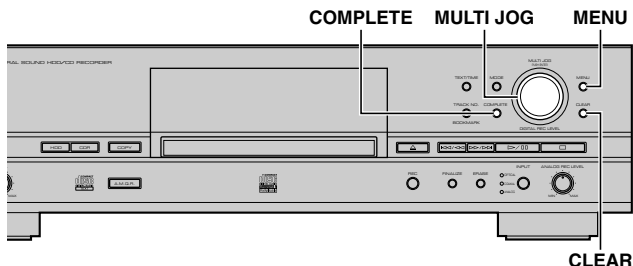
1. **Press MENU while the HDD is selected (P.14).**

   The display changes for the menu item selection.

2. **Rotate the MULTI JOG knob (press +/–, ▲ or ▼ on the remote control) to select "Disc Edit".**

   ```
   ▤Disc  Edit
   ```

3. **Press MULTI JOG knob (ENTER on the remote control).**

   The display changes for the editing menu item selection.

4. **Rotate the MULTI JOG knob (press +/–, ▲ or ▼ on the remote control) to select a menu item, then press MULTI JOG knob (ENTER on the remote control) to confirm the selection.**

   The followings are the disc editing menu items:

   • Disc Rename (P.67)
   • Disc Erase (P.67)
   • Disc Combine (P.68)
   • Disc Divide (P.68)
   • Disc Pack* (P.69)
   • Disc Title (P.69)

   * "Disc Pack" cannot be selected during playback.

Memo

• If MENU is pressed during editing, entry of the selection is canceled, and then this unit returns to the following state;
  – This unit returns to the editing menu item selection if having started editing during the stop mode.
  – This unit returns to the playback of the disc to be edited if having started editing during playback.

• If ▢ is pressed during editing, all entry of the selection is canceled, and this unit returns to the stop mode.

Disc Rename

You can move a disc and assign a new number.

1. **If "Disc Rename" is selected (P.66), the following screen appears.**

Rename   001?

Disc to be moved

If the edit menu is selected during playback, the unit automatically selects the item to be edited. In this case, skip to step 4 since you do not need to select an item.

2. **Rotate the MULTI JOG knob (press +/– on the remote control) to select the disc to be moved.**

3. **Press the MULTI JOG knob (ENTER on the remote control) to confirm the disc to be moved.**

The display scrolls to the left to indicate the disc number to be moved and new number.

D002→003
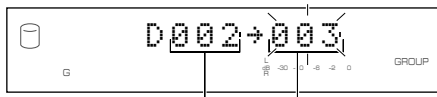
Disc to be moved   New disc number

Press CLEAR to cancel the confirmed selection.

4. **Rotate the MULTI JOG knob (press +/– on the remote control) to select the new disc number.**

5. **Press the MULTI JOG knob (ENTER on the remote control) to confirm the new disc number.**

Press CLEAR to cancel the confirmed selection.

6. **Press COMPLETE.**

The selected disc has been moved to and assigned a new number.

This unit returns to the editing menu item selection. (If the edit menu is carried on during playback, playback restarts.)

Memo

• If the selected new disc number is already in use, the disc numbers following this renumbered disc will be automatically up-numbered by one. However, if there is any unused disc number, only the discs up to that number will be up-numbered.

• The original number of the disc that has been renumbered will be available for future use.

Disc Erase

You can erase a selected disc.

1. **If "Disc Erase" is selected (P.66), the following screen appears.**

Erase   001?

Disc to be erased

If the edit menu is selected during playback, the unit automatically selects the item to be edited. In this case, skip to step 4 since you do not need to select an item.

2. **Rotate the MULTI JOG knob (press +/– on the remote control) to select the disc to be erased.**

3. **Press the MULTI JOG knob (ENTER on the remote control) to confirm the disc to be erased.**

Press CLEAR to cancel the confirmed selection.

4. **Press COMPLETE.**

The selected disc is erased.

This unit returns to the editing menu item selection. (If the edit menu is carried on during playback, playback restarts.)

Memo

The number of the erased disc will be available for future use.

5

EDITING

English

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Disc Combine

You can combine a series of discs into one.

1. **If "Disc Combine" is selected (P.66), the following screen appears.**

```
⊜Combine    001?
                          ᴿᴸ  -30 -10 -6 -2  0    GROUP
```

Disc to be the first in the combination

If the edit menu is selected during playback, the unit automatically selects the item to be edited. In this case, skip to step 4 since you do not need to select an item.

2. **Rotate the MULTI JOG knob (press +/– on the remote control) to select the first disc for the combination.**

3. **Press the MULTI JOG knob (ENTER on the remote control) to confirm the disc.**

The display scrolls to the left to indicate the disc numbers to be the first and the last in the combination.

```
⊜   001  -002
                          ᴿᴸ  -30 -10 -6 -2  0    GROUP
```
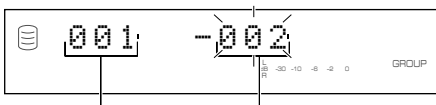
Disc to be the first in the combination   **Disc to be the last in the combination**

Press CLEAR to cancel the confirmed selection.

4. **Rotate the MULTI JOG knob (press +/– on the remote control) to select the second disc for the combination.**

5. **Press the MULTI JOG knob (ENTER on the remote control) to confirm the disc.**

Press CLEAR to cancel the confirmed selection.

6. **Press COMPLETE.**

The two selected discs and all those between are combined into one disc.

This unit returns to the editing menu item selection. (If the edit menu is carried on during playback, playback restarts.)

Notes

- One disc can contain up to 99 tracks. When the total track number on a disc exceeds 99, "Track No.Full" appears on the display.
- The maximum length of one disc on the HDD is 179 minutes 59 seconds. When the total time of the discs to be combined exceeds 179 minutes 59 seconds, "No Enough Spc" appears on the display.

Memo

- When combining a series of discs, the selected disc numbers following the selected first disc will be available for future use.
- The disc title for the first disc is effective for the combined disc.

Disc Divide

You can divide a disc into two at the selected point.

1. **If "Disc Divide" is selected (P.66), the following screen appears.**

```
⊜Divide     001?
                          ᴿᴸ  -30 -10 -6 -2  0    GROUP
```
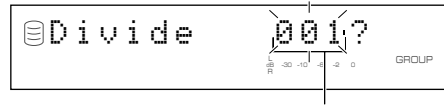
Disc to be divided

If the edit menu is selected during playback, the unit automatically selects the item to be edited. In this case, skip to step 4 since you do not need to select an item.

2. **Rotate the MULTI JOG knob (press +/– on the remote control) to select the disc to be divided.**

3. **Press the MULTI JOG knob (ENTER on the remote control) to confirm the disc.**

"Div. from" and the dividing point (the number of the track to be the first after dividing) appear on the display.

```
⊜Div. from   4?
                          ᴿᴸ  -30 -10 -6 -2  0    TRACK
```

Track to be the first after dividing

Press CLEAR to cancel the confirmed selection.

4. **Rotate the MULTI JOG knob (press +/– on the remote control) to specify the dividing point.**

5. **Press the MULTI JOG knob (ENTER on the remote control) to confirm the dividing point.**

Press CLEAR to cancel the confirmed selection.

6. **Press COMPLETE.**

The selected disc is divided into two at the selected dividing point.

This unit returns to the editing menu item selection. (If the edit menu is carried on during playback, playback restarts.)

Note

The HDD can contain up to 999 discs. If the HDD already contains 999 discs, "Disc No.Full" appears on the display.

Memo

The disc numbers following the divided disc will be up-numbered by one. However, if there is any unused disc number, only the discs up to that number will be up-numbered.

Before "Disc Divide"

1	2		4	5	6

Divided into two

1	2	3	4	5	6

After "Disc Divide" (When Disc 1 is divided)

Disc Pack

You can re-organize the disc numbers by eliminating unused disc numbers that have been created by changing disc numbers or erasing discs.

1. **If "Disc Pack" is selected (P.66), the following screen appears.**

```
⊟Pack ?
                    L
                    R  -30 -10 -6 -2  0
```

2. **Press COMPLETE.**

The disc numbers are re-organized by eliminating unused disc numbers.

This unit returns to the editing menu item selection.

Before "Disc Pack"

1		3	4		6

1	2	3	4	5	6

After "Disc Pack" (Unused disc numbers have been eliminated.)

Disc Title

You can assign a title to a recorded disc.

1. **If "Disc Title" is selected (P.66), the following screen appears.**

```
⊟Title      001?
                    L
                    R  -30 -10 -6 -2  0    GROUP
```

Disc to assign a title to

If the edit menu is selected during playback, the unit automatically selects the item to be edited. In this case, skip to step 4 since you do not need to select an item.

2. **Rotate the MULTI JOG knob (press +/– on the remote control) to select the disc to assign a title.**

3. **Press the MULTI JOG knob (ENTER on the remote control) to confirm the disc to assign a title to.**

```
⊟▮
                    L
                    R  -30 -10 -6 -2  0
```

The cursor flashes. (If the selected disc already has a title, the title appears on the display.)

4. **Use the MULTI JOG knob (press alphabetical/numeric buttons on the remote control) to enter characters.**

For details on selecting characters, refer to "Entering characters in the edit menu" (P.51).

5. **Press COMPLETE when all the characters have been entered.**

The title is assigned to the selected disc. Press TEXT/TIME to switch the display information as necessary (P.18).

This unit returns to the editing menu item selection. (If the edit menu is carried on during playback, playback restarts.)

5

EDITING

English

CANCELING EDIT OPERATIONS (UNDO)

You can cancel an operation and the result of a previous editing step on this unit (Undo function).
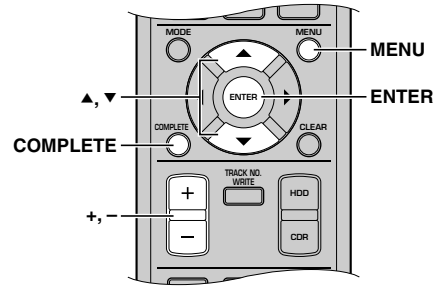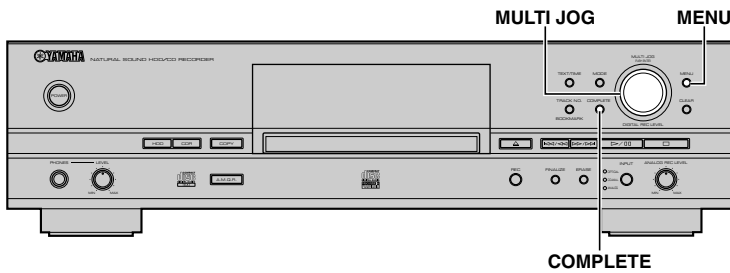
1. Press MENU while this unit is in the stop mode.

2. Rotate the MULTI JOG knob (press +/–, ▲ or ▼ on the remote control) to select "Undo".

3. Press the MULTI JOG knob (ENTER on the remote control) to display "Undo?".

4. Press COMPLETE.

The previous editing operation and result are canceled.

The undo function does not work if any of the following operations has been performed after the editing operation.

• After the editing operation, a recording has been made, or this unit has been set in the recording pause mode to start recording.

• After the editing operation, a copy has been made, or this unit has been set in the copy standby mode to start copying.

• Further editing operations have been performed.

• The HDD has been formatted.

The following message appears on the display if the undo function does not work.
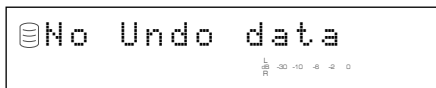
Memo

• The undo function does not apply to "Track Level" or "Tr. Interval" in the Album Edit menu and "Add Fade In" or "Add Fade Out" in the Track Edit menu because it can be canceled at any time.

• The undo function does not apply to "Album Title", "Track Title", or "Disc Title".

CONVERTING DIGITAL/ANALOG OUTPUT SIGNALS (DAC MODE)

This unit has the digital-analog converter (DAC) mode. When the DAC mode is turned on, the unit outputs audio sources (audio signals input from the input jacks) from the both digital (OPTICAL and COAXIAL) and analog (ANALOG) jacks.
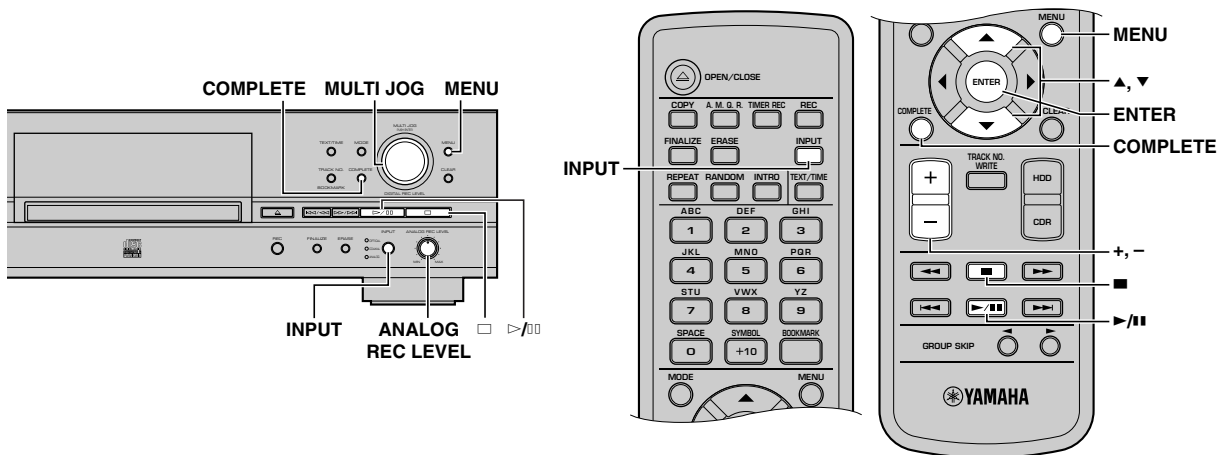
COMPLETE   MULTI JOG   MENU

INPUT   ANALOG □ ▷/ⅡⅡ
REC LEVEL

MENU

▲, ▼

ENTER

COMPLETE

+, −

■

▶/Ⅱ

1. **Press MENU while this unit is in the stop mode.**

The display changes for the menu item selection.

2. **Rotate the MULTI JOG knob (press +/–, ▲ or ▼ on the remote control) to select "DAC Mode".**

    ▤DAC Mode
            L
           dB -30 -10 -6 -2 0
            R
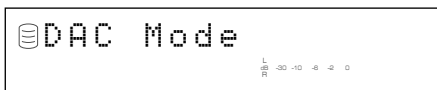
3. **Press the MULTI JOG knob (ENTER on the remote control) to enter the DAC mode.**

4. **Press INPUT to select the input sources (OPTICAL, COAXIAL, or ANALOG).**

The lamp for the selected input lights up and the unit outputs the input source from ANALOG LINE OUT and DIGITAL OUT (OPTICAL/COAXIAL) jacks.

Memo

• When OPTICAL or COAXIAL is selected, the MULTI JOG knob functions as a volume control.

• When ANALOG is selected, the ANALOG REC LEVEL control functions as a volume control.

5. **Any of the following operation cancel the DAC mode and start normal operation.**

• Press ▷/ⅡⅡ to play the drive that had been selected before entering the DAC mode.

• Press □ or COMPLETE to set this unit in the stop mode.

• Press MENU to return to the menu item selection.

6

OTHER FEATURES

English

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HDD UTILITY

■ Checking HDD information (HDD Info.)

You can check the HDD utility (capacity, usage, and available space) of this unit.

1. Press MENU while this unit is in the stop mode.

The display changes for the menu item selection.

2. Rotate the MULTI JOG knob (press +/–, ▲ or ▼ on the remote control) to select "HDD Utility".

```
⊟HDD  Utility
            L
            R  -30 -10 -6 -2  0
```
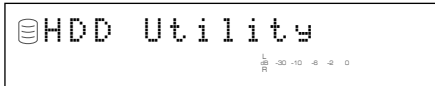
3. Press the MULTI JOG knob (ENTER on the remote control) to display "HDD Info.".

```
⊟HDD  Info.
            L
            R  -30 -10 -6 -2  0
```

4. Press the MULTI JOG knob (ENTER on the remote control) again to display the capacity of the HDD.

Rotating the MULTI JOG knob (pressing +/–, ▲ or ▼ on the remote control) changes the display as follows. The disc capacity is indicated by time (hour and minute).

Capacity (total time)

```
⊟Total  250h  4m
            L
            R  -30 -10 -6 -2  0
```

⬇

Usage (total used time)

```
⊟Used      1h  7m
            L
            R  -30 -10 -6 -2  0
```

⬇

Available space (recordable time)

```
⊟Avail  248h56m
            L
            R  -30 -10 -6 -2  0
```
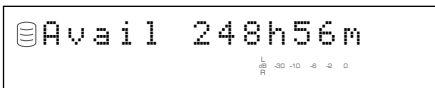
Memo

The times displayed are rough estimates.

5. Press □ or MENU to exit.

The unit returns to the stop mode.

■ Formatting the HDD (HDD Format)

You can format the HDD in this unit.

Notes
- After the HDD has been formatted, all data about the recorded tracks and settings will be erased from the HDD.
- After all data on the HDD have been initialized, the undo function cannot be applied to any editing operations before formatting.

1. Carry out steps 1 to 3 in "Checking HDD information (HDD Info.)" (at left).

The display changes for the HDD utility item selection.

2. Rotate the MULTI JOG knob (press +/–, ▲ or ▼ on the remote control) to select "HDD Format".
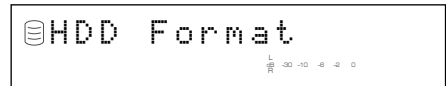
```
⊟HDD  Format
            L
            R  -30 -10 -6 -2  0
```

3. Press the MULTI JOG knob (ENTER on the remote control) to display "Initialize ?".

```
⊟Initialize  ?
            L
            R  -30 -10 -6 -2  0
```

4. Press the ▷/∥ to display "Format Really ?".

```
⊟Format  Really
            L
            R  -30 -10 -6 -2  0
```

To format the HDD, press INPUT. If not, press □.

5. Press INPUT to display "Format OK" and restart the unit.

Note

You cannot apply "HDD Format" for a new HDD. To format a new HDD after installation, refer to "HDD Installation Manual".

■ Checking the firmware version (Firm. Version)

Software that is called "firmware" is built into this unit. This firmware controls the operation. The following steps describe the firmware version check procedures.

1. Press MENU while this unit is in the stop mode.

The display changes for the menu item selection.

2. Rotate the MULTI JOG knob (press +/–, ▲ or ▼ on the remote control) to select "Sys. Utility".

> ⊟Sys. Utility
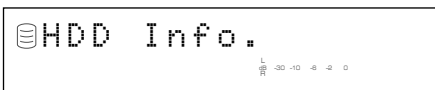> L
> R -30 -10 -6 -2 0

3. Press the MULTI JOG knob (ENTER on the remote control) to display "Firm. Version".

> ⊟Firm. Version
> L
> R -30 -10 -6 -2 0

4. Press the MULTI JOG knob (ENTER on the remote control) again to display the version of the firmware.

Rotating the MULTI JOG knob (pressing +/–, ▲ or ▼ on the remote control) changes the display as follows.

System firmware version

> ⊟V1.0.00 Jun 2
> L
> R -30 -10 -6 -2 0

⬇
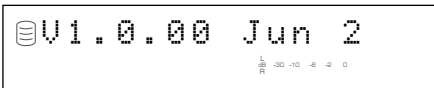
CDR drive firmware version

> ⊟CDRW 7.06
> L
> R -30 -10 -6 -2 0

⬇

Model of HDD

> ⊟ABCDEFGHIJKLM
> L
> R -30 -10 -6 -2 0

5. Press □ or MENU to exit.

The unit returns to the stop mode.

■ Initializing settings (Initialize)

You can initialize the settings that have been changed. The OPC data stored in this unit is also initialized.

1. Carry out steps 1 to 3 in "Checking the firmware version (Firm. Version)" (at left).

The display changes for the system utility item selection.

2. Rotate the MULTI JOG knob (press +/–, ▲ or ▼ on the remote control) to select "Initialize".

> ⊟Initialize
> L
> R -30 -10 -6 -2 0

3. Press the MULTI JOG knob (ENTER on the remote control) to display "Initialize ?".

> ⊟Initialize ?
> L
> R -30 -10 -6 -2 0

Press □ to cancel the initialization process.

4. Press COMPLETE.

The unit restarts with the initial settings.

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OTHER FEATURES

English

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■ Setting the display brightness (Dimmer Setup)

You can change the brightness of the display.

1. Carry out steps 1 to 3 in "Checking the firmware version (Firm. Version)" (P.73).

The display changes for the system utility item selection.

2. Rotate the MULTI JOG knob (press +/–, ▲ or ▼ on the remote control) to select "Dimmer Setup".
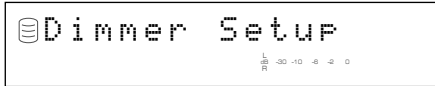
```
⊟Dimmer  Setup
                    L
                    ⊞ -30 -10 -6 -2  0
                    R
```

3. Press the MULTI JOG knob (ENTER on the remote control) to display the current setting.

Rotating the MULTI JOG knob (pressing +/–, ▲ or ▼ on the remote control) changes the setting as follows.

```
⊟Dimmer  Bright
                    L
                    ⊞ -30 -10 -6 -2  0
                    R
```

↓

```
⊟Dimmer  Mid
                    L
                    ⊞ -30 -10 -6 -2  0
                    R
```

↓

```
⊟Dimmer  Dark
                    L
                    ⊞ -30 -10 -6 -2  0
                    R
```

Memo

Initial setting is "Dimmer Bright".

4. Press the MULTI JOG knob (ENTER on the remote control) or COMPLETE.

The display brightness has been set.

5. Press □ or MENU to exit.

The unit returns to the stop mode.

■ Setting the video output (VIDEO Output)

You can switch the on-screen display output through the VIDEO OUT jacks on and off.

1. Carry out steps 1 to 3 in "Checking the firmware version (Firm. Version)" (P.73).

The display changes for the system utility item selection.

2. Rotate the MULTI JOG knob (press +/–, ▲ or ▼ on the remote control) to select "VIDEO Output".
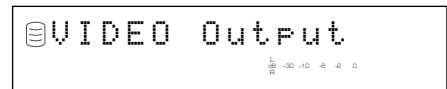
```
⊟VIDEO  Output
                    L
                    ⊞ -30 -10 -6 -2  0
                    R
```

3. Press the MULTI JOG knob (ENTER on the remote control) to display the current setting.

Rotating the MULTI JOG knob (pressing +/–, ▲ or ▼ on the remote control) switches the setting between "VIDEO On" and "VIDEO Off".

Memo

Initial setting is "VIDEO On".

4. Press the MULTI JOG knob (ENTER on the remote control) or COMPLETE.

The on-screen display output is set to on or off.

Memo

Select "VIDEO Off" if the on-screen display is not used so that you can enjoy playback or recording with higher quality sounds.

5. Press □ or MENU to exit.

The unit returns to the stop mode.

■ Starting playback automatically (Auto Play)

You can set the auto play function which automatically starts playback when the power of this unit is turned on. Using an external timer with this feature enables timer playback.

1. **Carry out steps 1 to 3 in "Checking the firmware version (Firm. Version)" (P.73).**
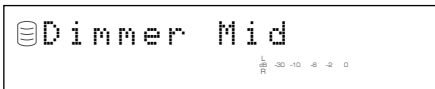
The display changes for the system utility item selection.

2. **Rotate the MULTI JOG knob (press +/–, ▲ or ▼ on the remote control) to select "Auto Play".**

```
⊟Auto Play
                    L
                    R   -30  -10  -6  -2  0
```

3. **Press the MULTI JOG knob (ENTER on the remote control) to display the current setting.**

```
⊟Auto Play Off
                    L
                    R   -30  -10  -6  -2  0
```

Rotating the MULTI JOG knob (pressing +/–, ▲ or ▼ on the remote control) switches the setting between "Auto Play On" and "Auto Play Off".

Memo

Initial setting is "Auto Play Off".

4. **Press the MULTI JOG knob (ENTER on the remote control) or COMPLETE.**

The auto play function is set to on or off.

If the auto play function is set to on, the setting will be applied when the power of this unit is turned on the next time.

• This unit plays data on the drive that had been last selected when the power of this unit was last turned off.

• This unit plays in the playback mode (such as random play) that had been last set when the power of this unit was last turned off.

5. **To carry out timer playback, connect the power cable of this unit to an external timer, then set the timer.**

Memo

The setting for the timer recording takes precedence over the setting for the auto play function. If the timer recording (P.32) is set, this unit starts recording when the power of this unit is turned on the next time even when "Auto Play On" is selected.

■ Updating the firmware version (Firm. Update)

This menu is prepared for the expansion of the functions in the future.

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OTHER FEATURES

English

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TROUBLESHOOTING

If this unit fails to operate normally, check the following points to determine whether the fault can be corrected by the simple measures suggested. If they cannot be corrected, or if the fault is not listed in the SYMPTOM column, disconnect the power cord and contact your authorized YAMAHA dealer or service center for assistance.

SYMPTOM	CAUSE	REMEDY
This unit does not turn on when POWER is pressed.	The power cable is not completely connected.	Securely connect the power cable (P.10).
Playback does not begin with the CD loaded.	There is moisture on the laser pick-up.	Turn the power of this unit and wait 20 to 30 minutes before trying to play (P.14).
	The CD has been loaded upside down.	Reload the CD with the label side facing up.
	The CD is dirty.	Clean the CD (P.v).
Playback is delayed, or begins at the wrong place.	The CD may be scratched or damaged.	Check the CD carefully. Replace it if necessary.
Recording/copying is not possible.	The CD-R or CD-RW disc has been finalized.	Load a recordable CD that has not been finalized yet (P.iv).
	The CD-R or CD-RW disc that has completed recording is loaded.	Load a recordable CD (P.iv).
	INPUT is not correctly set.	Set INPUT to the correct position according to the input signal (P.31).
	Further digital recording or copying has been attempted from the digitally copied sources.	Switch to ANALOG to make a recording (P.31).
	There is not enough available space left or 99 tracks have already been recorded on the disc.	Load a recordable disc (for a CD-R or CD-RW disc) (P.iv). Select the other discs (for the HDD) (P.16).
	There is no available space on the HDD.	Erase the space not being used to create available space on the HDD for further recording.
	If the power cable was unplugged or there was a power outage during recording, the recorded material may be lost.	If the recording of a CD-RW disc is interrupted, try recording again from the beginning. When the recording of a CD-R disc is interrupted, start recording over again with a disc that can be recorded on.
	The CD-R or CD-RW disc is dirty or damaged.	Clean or replace the CD-R or CD-RW disc (P.v).
Some vibration and rotation noise are created during the copying.	This unit copies by rotating the CD, CD-R or CD-RW disc at high speed.	Lower the copying speed to decrease vibration and rotation noise.
Continuous recording cannot be made on a disc or track on the HDD beyond 180 minutes.	The maximum recordable time for a disc or track on the HDD is 179 minutes 59 seconds.	Regardless of the recording mode, the recording will be performed continuously to the next available disc after the recording has been performed to one disc for its maximum length.
The beginning of the track is missing during the playback when this unit is connected digitally to an amplifier.	The tracks that have different emphases have been played.	Connect to the amplifier using the ANALOG LINE OUT (PLAY) jacks (P.10).
The sound is missing when this unit switches one disc to another.	The titles appear on the display during the playback of the part that has been recorded stretching over the two discs.	Press TEXT/TIME to switch the display to the indication of time (P.18).
A CD-R or CD-RW that has been recorded with this unit cannot be played on the other CD player or DVD player.	Your CD or DVD player is not compatible with CD-R or CD-RW discs.	Use a CD or DVD player compatible with CD-R or CD-RW discs.
	The CD-R or CD-RW disc has not been finalized.	Finalize the CD-R or CD-RW disc (P.47).
Sound "skips".	This unit and/or the component connected is being subjected to vibration or impact.	Relocate the unit. (This is not possible if the skipping sound is already on the recording due to vibrations or impact that occurred during recording.)
	The CD is dirty.	Clean the CD (P.v).
This unit makes noise.	Connection has not correctly been made.	Properly connect the audio pin cables. Replace the audio cables (P.10).

SYMPTOM	CAUSE	REMEDY
This unit does not operate properly.	The internal microcomputer has been frozen.	Turn off the power of this unit and then turn on again after about one minute (P.14).
There is rotation noise of the fan.	The temperature inside this unit rises.	The fan starts to rotate to cool off the temperature inside this unit.
A noise occurs at the change of the tracks that has been recorded from the analog record and edited.	A very low frequency component among the wow and flutter of the analog record is being output as a noise.	Improvement can be made by adding a short fade-in or fade-out to the track (P.64).
Remote control does not work.	The batteries of the remote control are too weak.	Replace two batteries with new ones (P.11).
	Remote control is from too far. Remote control is being used at an incorrect angle.	Use the remote control within 6 m and 60 degrees radius (P.11).
	Direct sunlight or lighting (of an inverter type of fluorescent lamp, etc.) is striking the remote control sensor.	Change the position so that the remote control sensor is not exposed to strong lighting.
TV does not correctly function when the remote control is being used.	Remote control is being used near TV set with a remote control sensor.	Relocate this unit away from the TV or cover the TV's remote control sensor.
The picture on the TV is impaired.	The indoor antenna is used.	Use an outdoor antenna, or set this unit away from the TV set.

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APPENDIX

DISPLAY MESSAGES

Can't Copy

This message is displayed for approximately 3 seconds when digital recording or copying is not possible according to the SCMS standard.

Refer to "Rules of Digital Recording" (P.82).

Can't Edit

This message is displayed when a prohibited editing operation has been attempted.

Can't Tr.Lev.

The album with its tracks' level adjusted is to be copied to a CD-R disc in the Audio Master Quality Recording mode.

Can't use HDD

The loaded HDD has been formatted by other CDR-HD1500s. Reformat by the CDR-HD1500 on which you plan to use that HDD (P.72).

Change Discs!

This message informs that a CD needs to be changed to a disc to be used for duplicating when copying from a CD onto the HDD has been completed.

Check Disc

This unit fails to read the CD because the CD has been loaded on the disc tray upside down or the CD has remarkable scratch on it, or some kind of error has been occurred during operation. Check the disc, and exchange the CD if necessary.

Data Track

This message is displayed when the data track is being played.

Disc Full

This message is displayed when recording to a CD-R or CD-RW disc cannot be performed any further because the recording has been made up to the total recordable time.

Disc No.Full

When the number of discs recorded on the HDD has reached its maximum of 999 discs, this message is displayed if more discs have been attempted to be added.

Drive Check

Some kind of error has been occurred in the HDD or the CDR drive. Contact the nearest authorized YAMAHA dealer or service center. Or HDD is not set to "slave" precisely. Refer to the "HDD Installation Manual" and set the HDD to "slave".

Erasing

Erasing a CD-RW disc is being performed. The erasing progress is indicated by the level meter.

Finalize OK?

This message confirms starting the finalization of a CD-R or CD-RW disc. If you wish to finalize, press ▷/⏸.

Finalizing

Finalization is being performed. The finalization progress is indicated by the level meter.

Format Really

This message confirms starting the format of the HDD after "Initialize ?" appears.

HDD Full

This message is displayed when recording to the HDD cannot be performed any further because the recording has been made up to the total recordable time.

Initialize ?

This message confirms starting the format of the HDD, or the initialization of each item.

Invalid Mode

The recording mode that cannot be selected during the timer recording setting has been selected.

New Disc

The disc in the disc tray is either a new CD-R or CD-RW disc, or a CD-RW disc that has been erased by using a "Disc Erase" or "All Erase".

No Data

There are no tracks (data) recorded on the HDD.

No Disc

There are no CDs on the disc tray.

No Enough Spc

There is not enough space for copying, or the track number exceeds the maximum number when copying.

No Input

There are no input signals when attempting the recording from the external components digitally.

No Previous

When making "Tr. Interval" on the ALBUM EDITING menu or "Track Adjust" on the TRACK EDITING menu, there is no track before the track to be edited.

No Source

There is no source recorded on the HDD or CDs when copying.

Not Audio

A non-audio CD-R or CD-RW disc, such as a CD-R or CD-RW disc for PCs, has been loaded in the disc tray, and recording has been attempted on that CD-R or CD-RW disc.

No Undo data

Undo is not possible.

OPC Adjust

This message is displayed while OPC (Optimum Power Calibration) optimized the laser power to the reflectivity of the disc. Approximately 10 seconds may be required to complete this automatic adjustment. However, this time length may change according to the type of the disc that has been loaded.

Pack Before !

This message is displayed when the editing operation cannot be done unless "Pack" is performed.

Reading

This unit reads the format of the CD, CD-R, or CD-RW disc loaded on the disc tray. Approximately 10 to 20 seconds may be required to complete this automatic adjustment. However, this time length may change according to the type of the CD, CD-R, or CD-RW disc that has been loaded.

Standby

This message is displayed for several seconds after REC has been pressed to record on a CD-R or CD-RW disc.

Timer Standby

This message is displayed after the timer recording setting has been completed, or displayed for approximate five seconds before the timer recording starts.

Track No.Full

One disc can contain up to 99 tracks. Recording is attempted on the disc that has reached the maximum number.

Unavailable

The CD-R disc whose recordable time is other than 74 minutes or 79 minutes or the CD-R disc which does not support 4x writing, or the CD-RW disc has been loaded when copying in the Audio Master Quality Recording mode.

Unrecordable

In recording or copying onto a CD-R or CD-RW disc, the disc cannot be used for recording or copying. Or in recording or copying onto the HDD, no space is available.

Wait

This message flashes while this unit is writing information to the PMA (Program Memory Area) after □ is pressed in recording onto a CD-R or CD-RW disc, or flashes while processing the data on the HDD or detecting the loaded HDD when this unit is turned on.

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APPENDIX

GLOSSARY

The following explains key terms used in this manual.

Album

An album is a unit used while playing back or recording audio signals on this unit. For detailed information, see "Data on the HDD" (P.16).

Audio Master Quality Recording

Audio Master Quality Recording is a high quality recording mode used to create an audio CD with its original quality. By minimizing the jitter that subtly degrades the audio quality or even causes data transmission failure, Audio Master Quality Recording actualizes a clear sound close to the original sound.

Bookmark

A bookmark is a collection of audio tracks of your preference. You can play back or record audio data using a bookmark, and an album can be created from a bookmark. For detailed information, see "Data on the HDD" (P.16) or "Data on CDs" (P.17).

CD TEXT

CD TEXT is text information (album title, track title, etc) recorded on CDs and can be read only with a CD player or CD-ROM drive that supports CD TEXT.

Digital Move

Digital move implies moving audio data recorded on the HDD onto CD-R/RW discs. The audio data once digital moved onto CD-R/RW discs are erased from the HDD. Because digital move is regarded as one generation of digital copying, audio data can be digitally copied from CDs onto the HDD and then from the HDD onto CD-R/RW discs. However, audio data cannot be copied onto several CD-R/RW discs at the same time.

Disc

A disc is a unit used while playing back or recording audio signals on this unit. For detailed information, see "Data on the HDD" (P.16) or "Data on CDs" (P.17).

Emphasis

Emphasis is a recording mode used to improve the quality of audio data. Emphasis turns the volume of the upper register up before recording and down while playing back, resulting in a decrease in the noise level of the upper register.

Finalize

Finalize is a process to enable audio data recorded onto CD-R/RW discs to be played back on CD players or other CD-RW compatible devices. An audio disc created on this unit must be finalized to be played back on other playback devices.

Group

A group is a unit used while playing back or recording audio signals on this unit and is a collective term for albums, discs and bookmarks. A group consists of several audio tracks. For detailed information, see "Data on the HDD" (P.16) or "Data on CDs" (P.17).

SCMS

SCMS (Serial Copy Management System) is a system developed by JASRAC (Japanese Society for Rights of Authors, Composers and Producers) to prevent unlimited digital copying of CD's and other prerecorded media. In essence, SCMS prevents more than one generation of digital copying (i.e. a copy of an SCMS copy-protected source cannot be duplicated).

TOC

TOC (Table of Contents) is a disc index recorded on a finalized disc and enables playback devices to distinguish audio tracks recorded on the disc.

Track

A track is equivalent to one audio recording and is the smallest unit used while playing back or recording audio signals on this unit. For detailed information, see "Data on the HDD" (P.16) or "Data on CDs" (P.17).

Track Mark

A track mark is a mark made at the beginning of a track and enables playback devices to distinguish the starting position of each audio track. A track mark also facilitates track search and intro playback. You can make a track mark on this unit either automatically or manually.

LIST OF SYSTEM MENU

You can make the following operations on this unit's system menu according to your needs.

Menu		Menu content	Page
Album Edit*	Album New	Edits the albums on the HDD. For detailed information on each menu, see "LIST OF EDIT MENU" (P.50) or "EDITING ALBUMS" (P.52-57).	52-57
	Edit Stored		
	Album Copy		
	Album Rename		
	Album Delete		
	Album Pack		
	Album Title		
	Track Shuffle		
	Track Level		
	Tr. Interval		
Track Edit*	Track Rename	Edits the tracks on the HDD. For detailed information on each menu, see "LIST OF EDIT MENU" (P.50) or "EDITING TRACKS" (P.58-65).	58-65
	Track Adjust		
	Track Erase		
	Part Erase		
	Track Combine		
	Track Divide		
	Track Pack		
	Add Fade In		
	Add Fade Out		
	Track Title		
Disc Edit*	Disc Rename	Edits the discs on the HDD. For detailed information on each menu, see "LIST OF EDIT MENU" (P.50) or "EDITING DISCS" (P.66-69).	66-69
	Disc Erase		
	Disc Combine		
	Disc Divide		
	Disc Pack		
	Disc Title		
Undo		Cancels the editing operation.	70
HDD Utility	HDD Info.	Displays the HDD capacity.	72
	HDD Format	Formats the HDD.	72
Sys. Utility	Firm. Version	Displays the firmware version in use.	73
	Initialize	Initializes settings for various menus.	73
	Dimmer Setup	Adjusts the display brightness.	74
	VIDEO Output	Turn on or off the video output.	74
	Auto Play	Starts playback automatically when the power is on.	75
	Firm. Update	Updates the firmware version.	75
Synchro Setup	OPT TH Level	Adjusts the settings for detecting track intervals in the synchronized recording mode. For detailed information, see "Setting a condition for synchronized recording" (P.36).	36
	COAX TH Level		
	ANLG TH Level		
	Int. Time		
	End Duration		
DAC Mode		Converts digital/analog output signals.	71

* "Album Edit", "Track Edit" and "Disc Edit" only display when the HDD is selected.

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APPENDIX

RULES OF DIGITAL RECORDING AND NOTES ON SYSTEM

■ Rules of digital recording

SCMS (Serial Copy Management System)

As a digital audio component, this unit conforms with the Serial Copy Management System (SCMS) standards. The Serial Copy Management System restricts copies made by recording digital signals to first-generation copies only.

The digital program sources that have been recorded cannot be digitally recorded again.

There are 2 rules as follows:

Rule 1

Digital sources such as commercially available CDs can be copied digitally onto other recordable digital media with this unit (a first-generation digital copy). However, the first-generation digital copy cannot be copied digitally any further.

Rule 2

The source that was recorded via the ANALOG LINE IN (REC) jacks can be copied digitally onto other recordable digital media (a first-generation digital copy). However, the first-generation digital copy cannot be copied digitally any further.

This unit monitors the SCMS status for each track when a digital recording is made. If the track is protected from digital recording and copying, it is not possible to make a digital recording and copy of that track.

The SCMS standard does not apply to analog recording and copying.

When making a copy from a CD onto the HDD, or from the HDD onto a CD-R or CD-RW disc, any of the copy methods described below can be selected. The following selections are contained in "Copy Method".

• "Auto Dig/Anlg":
  Automatically switches to analog recording if the track cannot be digitally recorded for SCMS.
• "Digital Copy":
  Performs digital copying of only those tracks that can be digitally copied.
• "Digital Move":
  Performs digital copying of the tracks that cannot be digitally copied by "Digital Copy" when copying from the HDD onto a CD-R or CD-RW disc.
• "Analog Copy":
  Performs analog copying regardless of the SCMS standard.

Digital Move

This unit has a built-in HDD with large space that makes a long recording possible. You can create your own CD by editing the various program sources that have been recorded onto the HDD of this unit and copying them onto a CD-R or CD-RW disc.

If you want to make a digital copy of the original data that has been created on the HDD to a CD-R or CD-RW disc, the "Digital Move" method is convenient. You can make a digital copy from the HDD onto a CD-R or CD-RW disc even if the track is protected from making a second-generation copy by the SCMS standard.

However, since the concept of "Digital Move" is that the data is moved from the HDD onto a CD-R or CD-RW disc, the original data on the HDD is erased when moving is complete.

■ Notes on system

Number and length of recordable discs and tracks

• One CD-R or CD-RW disc, or one disc on the HDD can be recorded with up to 99 tracks on them.
• Once 99 tracks have been recorded, no further recording is possible even if space for recording is available on the disc.
• The minimum length of one track must be 4 seconds. If a recording is stopped while the track is less than 4 seconds long, this unit will record for 4 seconds, and then stop recording. The maximum length of one track is 179 minutes 59 seconds for the HDD.
• 999 discs can be created at maximum on the HDD of this unit. However, the number of discs that can be created is limited according to the space availability (total recordable time) on the HDD.
• The maximum length of one disc on the HDD is 99 minutes 59 seconds. However, since each track on the HDD is handled in the unit of frame (75 frames are equal to one second), the maximum length of one track or disc may vary slightly.
• When recording on a CD-R or CD-RW disc, 2-second silence will be automatically added to the beginning of the first track. Therefore the actual total recordable time will be 2 seconds shorter than the total recordable time of a CD-R or CD-RW disc.

Source sampling rate conversion

• Digital input of this unit supports sampling frequencies of 32kHz, 44.1kHz, 48kHz, and 96kHz. This unit converts these inputs to the 44.1kHz,16-bit digital signals and records them onto the HDD, or a CD-R or CD-RW disc.
• Analog input is also converted to the same digital signal to be recorded.
• This unit outputs the signals at the sampling frequency of 44.1kHz, 16-bit from its digital output.

Recording of non-audio signals

• This unit is designed exclusively for recording audio signals. Recording is only possible for audio signals.
• When a CD with CD TEXT is copied onto the HDD, CD TEXT will be automatically copied if it is not copy protected. When a CD with CD TEXT is recorded from an external CD player, CD TEXT cannot be copied even if it is not copy protected. To copy CD TEXT, use the built-in CDR drive of this unit.
• If the digital signals contain graphic data such as CD graphics, the non-audio signals will not be recorded.
• It is not possible to record from non-audio sources such as CD-ROM or DVD.

Data processing

• A small amount of space may be used for data processing besides recording the actual program sources.
• Although this unit is capable of recording 999 albums at maximum onto the HDD, the data processing speed may slow down if a large number of albums is created.

SPECIFICATIONS

Audio Performance

Frequency response .... 5 to 20,000 Hz, ±0.5 dB

S/N ratio (EIAJ)
    Playback .... 105 dB
    Recording .... 92 dB

Total harmonic distortion (1 kHz)
    Playback .... 0.004 %
    Recording .... 0.006 %

Dynamic range
    Playback .... 99 dB
    Recording .... 92 dB

Laser Diode Properties

Material .... GaAIAs

Wavelength .... 780 to 787 nm

Pulse durations and max. output at the objective lens of the laser pickup unit
    DC erase mode .... Max. 12 mW (Continuous)
    Write mode .... Max. 70 mW
          (Max. Cycle 98 ns, Min. Cycle 27 ns at Max. Speed)

Inputs

ANALOG LINE IN (REC)
    Type .... Pin jack
    Standard input level .... 500 mV/24 kΩ

DIGITAL IN (OPTICAL)
    Type .... Square optical connector jack

DIGITAL IN (COAXIAL)
    Type .... Coaxial jack
    Standard input level .... 0.5 Vp-p (75 Ω)

Outputs

ANALOG LINE OUT (PLAY)
    Type .... Pin jack
    Standard output level (1 kHz, 0 dB) .... 2.0±0.5 Vrms

DIGITAL OUT (OPTICAL)
    Type .... Square optical connector jack

DIGITAL OUT (COAXIAL)
    Type .... Coaxial jack
    Standard output level .... 0.5 Vp-p (75 Ω)

PHONES
    Standard output level (Input 150 Ω shorted, –20 dB)
    .... 300 mV/150 Ω

General

Power supply
    [U.S.A. model] .... AC 120 V, 60 Hz
    [Australia model] .... AC 240 V, 50 Hz
    [U.K. and Europe models] .... AC 230 V, 50 Hz

Power consumption .... 37 W

Operating environment
    Temperature .... +5 to 35°C
    Humidity .... 30 to 90 % RH (No condensation)

Dimensions (W x H x D) .... 435 x 115.5 x 414.5 mm
        (17-1/8" x 4-1/2" x 16-5/16")

Weight .... 8.2 kg (18 lbs. 1 oz.) without HDD

Specifications are subject to change without notice.

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APPENDIX

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

ATTENTION

L'emploi de commandes, de réglages ou un choix de procédures différents des spécifications de cette brochure peut entraîner une exposition à d'éventuelles radiations pouvant être dangereses.

ACHTUNG

Die Verwendung von Bedienungselementen oder Einstellungen oder die Durchführung von Bedienungsvorgängen, die nicht in dieser Anleitung aufgeführt sind, kann zu einem Kontakt mit gefährlichen Laserstrahlen führen.

OBSERVERA

Användning av kontroller och justeringar eller genomförande av procedurer andra än de som specificeras i denna bok kan resultera i att du utsätter dig för farlig strålning.

ATTENZIONE

Uso di controlli o regolazioni o procedure non specificamente descritte può causare l'esposizione a radiazioni di livello pericoloso.

PRECAUCIÓN

El uso de los controles o los procedimientos de ajuste o utilización diferentes de los especificados en este manual pueden causar una exposición peligrosa a la radiación.

VOORZICHTIG

Gebruik van bedieningsorganen of instellingen, of uitvoeren van handelingen anders dan staan beschreven in deze handleiding kunnen leiden tot blootstelling aan gevaarlijke stralen.

VARO!

AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTIINA NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.

VARNING!

OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD OCH SPÄRREN ÄR URKOPPLAD. BETRAKTA EJ STRÅLEN.

CLASS 1 LASER PRODUCT
LASER KLASSE 1 PRODUKT
LUOKAN 1 LASERLAITE
KLASS 1 LASER APPART
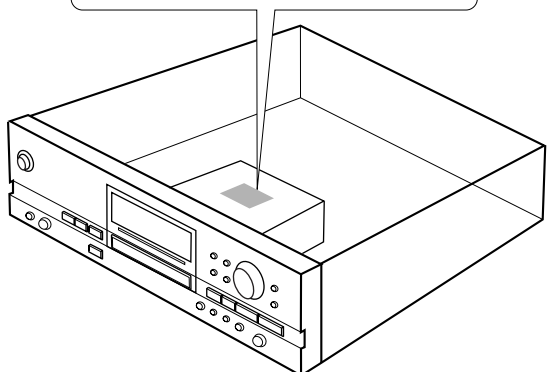**PRODUIT LASER DE CLASSE 1**
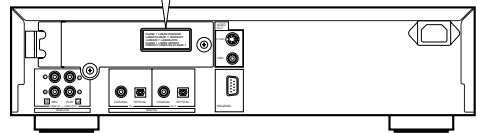
(For U.S.A. model)

CLASS 1 LASER PRODUCT
LASER KLASSE 1 PRODUKT
LUOKAN 1 LASERLAITE
KLASS 1 LASER APPART
PRODUIT LASER DE CLASSE 1
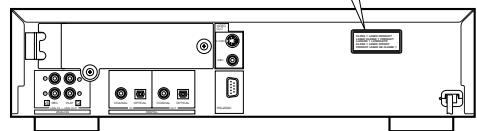
(For U.K. and Europe models)

CAUTION	CLASS 3B INVISIBLE LASER RADIATION WHEN OPEN,AVOID EXPOSURE TO THE BEAM.
VARNING	KLASSE 3B OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. UNDVIK ATT UTSÄTTA DIG FÖR STRÅLEN.
VARO !	AVATTAESSA OLET ALTTIINA NÄKYMÄTTÖMÄLLE LUOKAN 3B LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.
ATTENTION	RADIATIONS LASER INVISIBLES DE CLASSE 3B QUAND OUVERT. ÉVITEZ TOUT EXPOSITION AU FAISCEAU.
ADVARSEL	KLASSE 3B USYNLIG LASERSTRÅLING VED ÅBNING. UNDGÅ UDSÆTTELSE FOR STRÅLING.
VORSICHT	BEI GEÖFFNETER ABDECKUNG IST UNSICHTBARE LASERSTRAHLUNG DER KLASSE 3B IM GERÄTEINNEREN VORHANDEN. AUGEN NICHT DEM LASERSTRAHL AUSSETZEN!

⊛YAMAHA

YAMAHA CORPORATION
Printed in Malaysia ⊂ WE86090

YAMAHA

CDR-HD1500

HDD Installation Manual

(English)

INSTALLING THE HDD

This product does not have a built-in hard disk drive (HDD) depending on the sales location. Please purchase a commercially available HDD for internal use and install it on this unit correctly, referring to the instruction below.

■ Required specifications of the HDD

Interface .... IDE/ATA type

Data Transfer Mode .... PIO mode 0 to 4 and Multi-word DMA mode 0 to 2 compatible

Size .... 3.5-inch type

Capacity .... 20 to 400GB

■ Installation procedures

Before installation
- Turn off the power of this unit and unplug the AC power cable from the wall outlet.
- Disconnect all the connections.
- Set the HDD to SLAVE (see description below).

MASTER or SLAVE setting on the HDD

It is necessary to set the HDD to MASTER or SLAVE when connecting the HDD to the component you plan to use. This unit is designed to operate HDD when it is set to SLAVE. Usually, setting procedure is written on the HDD itself.

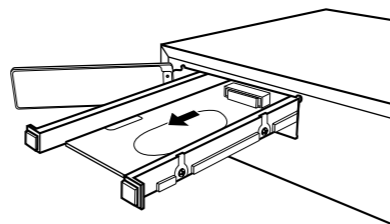**Example: When setting the ST3160021A model**
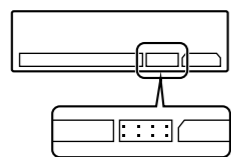
The HDD is set to slave by setting no plastic shunt at any position of the jumper switch.

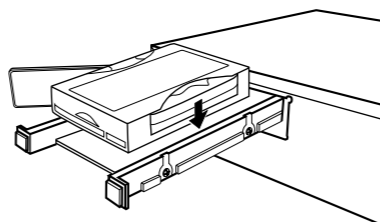**1.** Loosen the two fixing screws on the HDD slot door and open the HDD slot door.

Fixing screws
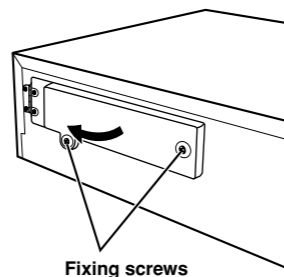
2. Pull out the HDD tray.
- Be careful not to hook the IDE cable and the power cable over the HDD tray.
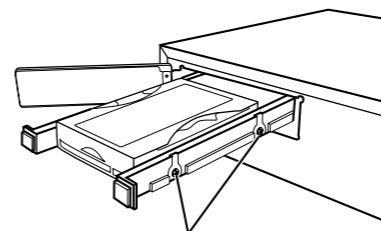- Do not apply the excessive force on the HDD tray.

3. Place the HDD on the HDD tray.
- HDD is a very sensitive device. Be careful not to give any shock to it.


4. Tighten the four fixing screws.

Fixing screws
(Screws are on the opposite side)

5. Push the HDD tray and connect the IDE cable and the power cable.
- Make sure that the terminals and connectors are in the correct direction, and connect the cables securely.
- Static electricity can damage the HDD. Be careful not to touch the terminal pins and the circuit board.
- Do not apply excessive force on the HDD tray.

IDE cable　**Power cable**
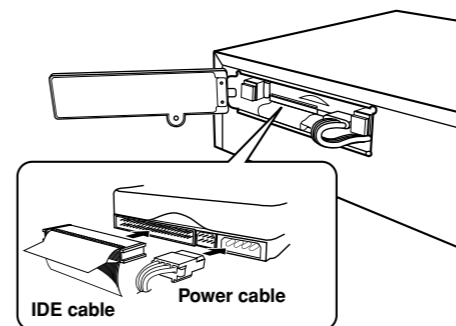
6. Close the HDD slot door and tighten the two fixing screws on the HDD slot door.

Fixing screws
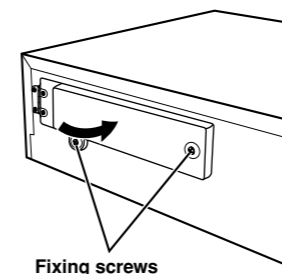
■ Formatting the HDD

If you install a new HDD, you need to format the HDD before using with this unit.

1. Connect the AC power cable to the wall outlet and turn on the power of this unit.
"Format Start?" appears on the display.

2. Press ▷/⏸.
"Format Really" appears on the display.

3. Press ▷/⏸.
"Push PLAY KEY" appears on the display.

4. Press ▷/⏸.
"Wait" flashes on the display. After a few seconds, this unit starts formatting of the HDD. It takes approximately 15 seconds to complete formatting.

5. When formatting has been completed, "Format OK" appears on the display. Then the display returns to the one when the power of this unit was turned on.

> **Note**
>
> You do not need to format the HDD when using a HDD formatted with this unit. When using a HDD formatted with another CDR-HD1500 or other device, follow "Formatting the HDD (HDD Format" (P.72) of "CDR-HD1500 Owner's Manual".

■ Recommended HDDs

We have checked the compatibility with CDR-HD1500 for the following model (as of March, 2005):
- Seagate Baraccuda 7200.7 Series/ST3160021A (160GB)

(Company and product names are trademarks of their respective company.)
For additional information on HDDs, see your local YAMAHA authorized dealer.

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